



# FCC RF Test Report

APPLICANT : Espressif Systems (Shanghai) Co.,Ltd.  
EQUIPMENT : 2.4GHz Wi-Fi & BT IoT Module  
BRAND NAME : ESPRESSIF  
MODEL NAME : ESP32-S3-WROOM-2  
FCC ID : 2AC7Z-ESPS3WROOM2  
STANDARD : FCC Part 15 Subpart C §15.247  
CLASSIFICATION : (DTS) Digital Transmission System  
TEST DATE(S) : Jan. 11, 2022 ~ Mar. 05, 2022

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



**Sporton International Inc. (Kunshan)**

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FR1D1703B  | Rev. 01 | Initial issue of report | Mar. 25, 2022 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section                                                                                | FCC Rule           | Description                                        | Limit                          | Result      | Remark                              |
|-----------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------|--------------------------------|-------------|-------------------------------------|
| 3.1                                                                                           | 15.247(a)(2)       | 6dB Bandwidth                                      | $\geq 0.5\text{MHz}$           | Pass        | -                                   |
| 3.1                                                                                           | -                  | 99% Bandwidth                                      | -                              | Report Only | -                                   |
| 3.2                                                                                           | 15.247(b)          | Power Output Measurement                           | $\leq 30\text{dBm}$            | Pass        | -                                   |
| 3.3                                                                                           | 15.247(e)          | Power Spectral Density                             | $\leq 8\text{dBm}/3\text{kHz}$ | Pass        | -                                   |
| 3.4                                                                                           | 15.247(d)          | Conducted Band Edges                               | $\leq 20\text{dBc}$            | Pass        | -                                   |
|                                                                                               |                    | Conducted Spurious Emission                        |                                | Pass        | -                                   |
| 3.5                                                                                           | 15.247(d)          | Radiated Band Edges and Radiated Spurious Emission | 15.209(a) & 15.247(d)          | Pass        | Under limit 1.00 dB at 2389.950 MHz |
| 3.6                                                                                           | 15.207             | AC Conducted Emission                              | 15.207(a)                      | Pass        | Under limit 12.75 dB at 0.161 MHz   |
| 3.7                                                                                           | 15.203 & 15.247(b) | Antenna Requirement                                | 15.203 & 15.247(b)             | Pass        | -                                   |
| <b>Remark:</b> Not required means after assessing, test items are not necessary to carry out. |                    |                                                    |                                |             |                                     |

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Applicant

Espressif Systems (Shanghai) Co.,Ltd.

Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China

## 1.2 Manufacturer

Espressif Systems (Shanghai) Co.,Ltd.

Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China

## 1.3 Product Feature of Equipment Under Test

| Product Feature |                              |
|-----------------|------------------------------|
| Equipment       | 2.4GHz Wi-Fi & BT IoT Module |
| Brand Name      | ESPRESSIF                    |
| Model Name      | ESP32-S3-WROOM-2             |
| FCC ID          | 2AC7Z-ESPS3WROOM2            |
| HW Version      | V1.2                         |
| SW Version      | V1.1.3.0                     |
| EUT Stage       | Production Unit              |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Tx/Rx Channel Frequency Range           | 2412 MHz ~ 2462 MHz                                                                                                                        |
| Maximum (Peak) Output Power to antenna  | 802.11b : 23.36dBm (0.2168 W)<br>802.11g : 25.54dBm (0.3581 W)<br>802.11n HT20 : 25.34dBm (0.3420 W)<br>802.11n HT40 : 25.24dBm (0.3342 W) |
| Antenna Type / Gain                     | PCB Antenna type with gain 3.26dBi                                                                                                         |
| Type of Modulation                      | 802.11b : DSSS (DBPSK / DQPSK / CCK)<br>802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)                                                     |

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.



## 1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

|                    |                                                                                                                                                                          |                     |                                   |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|
| Test Firm          | Sporton International Inc. (Kunshan)                                                                                                                                     |                     |                                   |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158<br>FAX : +86-512-57900958 |                     |                                   |
| Test Site No.      | Sporton Site No.                                                                                                                                                         | FCC Designation No. | FCC Test Firm<br>Registration No. |
|                    | CO01-KS<br>03CH02-KS<br>03CH05-KS<br>TH01-KS                                                                                                                             | CN1257              | 314309                            |

## 1.7 Test Software

| Item | Site      | Manufacturer | Name | Version       |
|------|-----------|--------------|------|---------------|
| 1.   | 03CH02-KS | AUDIX        | E3   | 6.2009-8-24a  |
| 2.   | 03CH05-KS | AUDIX        | E3   | 6.2009-8-24a1 |
| 3.   | CO01-KS   | AUDIX        | E3   | 6.2009-8-24   |

## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

| Frequency Band  | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|-------------|---------|-------------|
| 2400-2483.5 MHz | 1       | 2412        | 7       | 2442        |
|                 | 2       | 2417        | 8       | 2447        |
|                 | 3       | 2422        | 9       | 2452        |
|                 | 4       | 2427        | 10      | 2457        |
|                 | 5       | 2432        | 11      | 2462        |
|                 | 6       | 2437        |         |             |

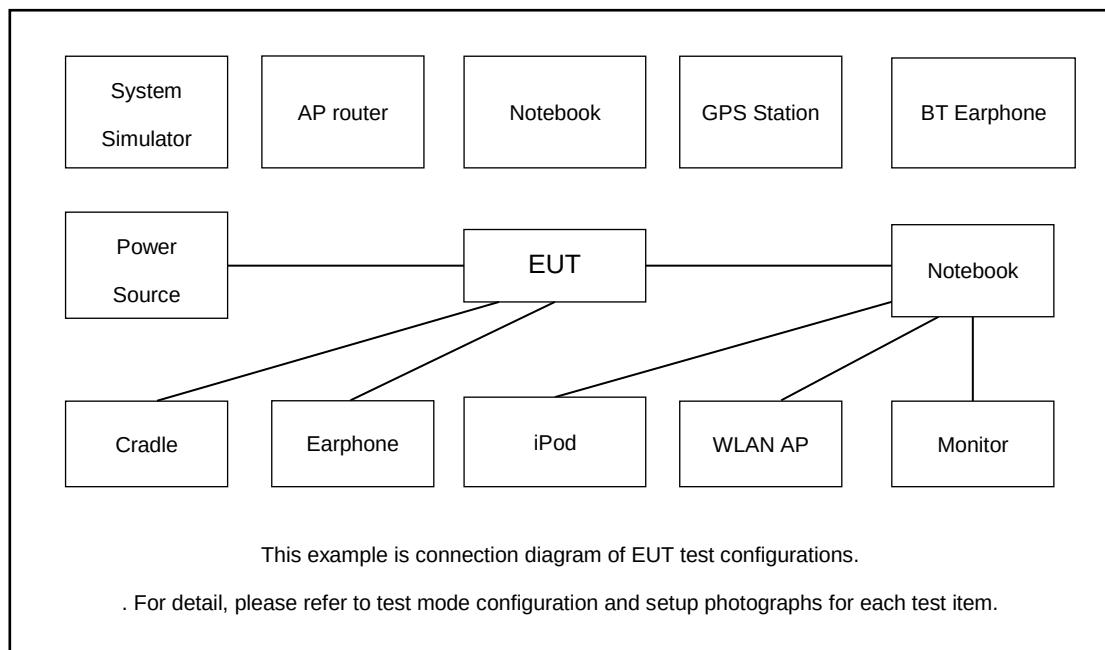
### 2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

| Modulation   | Data Rate |
|--------------|-----------|
| 802.11b      | 1 Mbps    |
| 802.11g      | 6 Mbps    |
| 802.11n HT20 | MCS0      |
| 802.11n HT40 | MCS0      |

| Test Cases            |                                 |
|-----------------------|---------------------------------|
| AC Conducted Emission | Mode 1 :Bluetooth +WLAN(2.4GHz) |

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name    | FCC ID     | Data Cable | Power Cord                                                 |
|------|-----------|------------|---------------|------------|------------|------------------------------------------------------------|
| 1.   | WLAN AP   | D-link     | DIR-655       | KA21R655B1 | N/A        | Unshielded,1.8m                                            |
| 2.   | Notebook  | Lenovo     | V130-15IKB005 | N/A        | N/A        | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Shielded, 1.8 m |





## 2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss.

*Offset = RF cable loss*

Following shows an offset computation example with cable loss 5.30 dB.

$$\begin{aligned}\text{Offset (dB)} &= \text{RF cable loss (dB)} \\ &= 5.30 \text{ (dB)}\end{aligned}$$

### 3 Test Result

#### 3.1 6dB Bandwidth Measurement

##### 3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

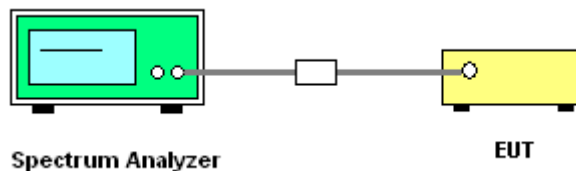
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

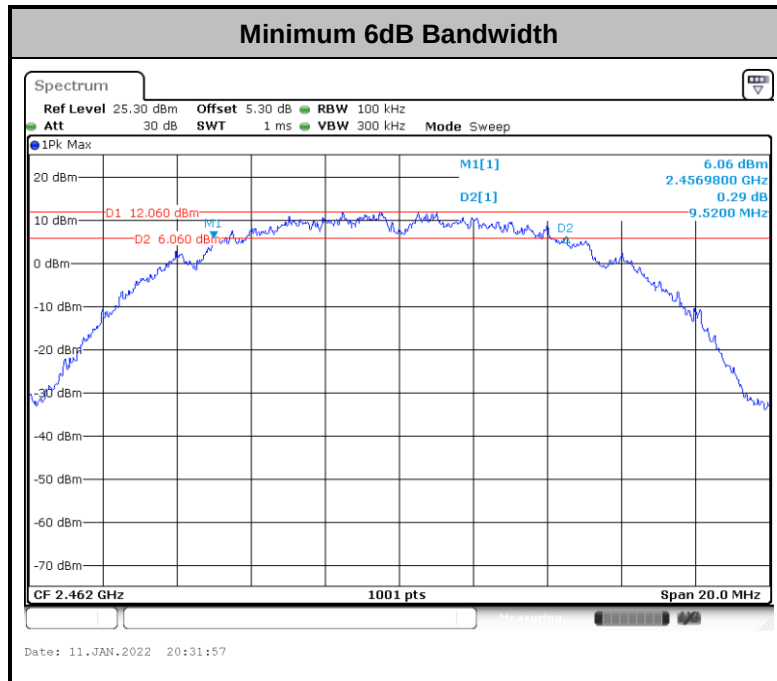
1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. Measure and record the results in the test report.

##### 3.1.4 Test Setup



### 3.1.5 Test Result of 6dB Occupied Bandwidth

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

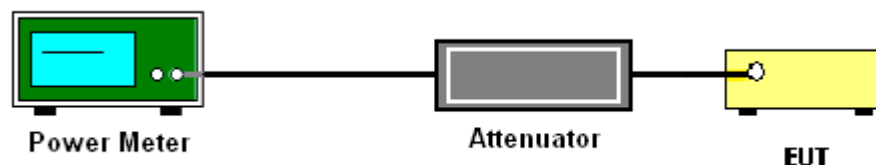
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.



### **3.3 Power Spectral Density Measurement**

#### **3.3.1 Limit of Power Spectral Density**

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

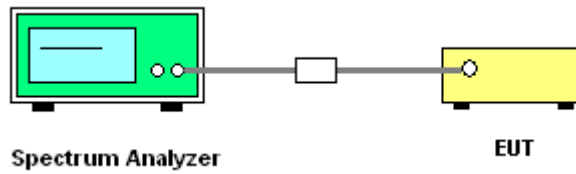
#### **3.3.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

#### **3.3.3 Test Procedures**

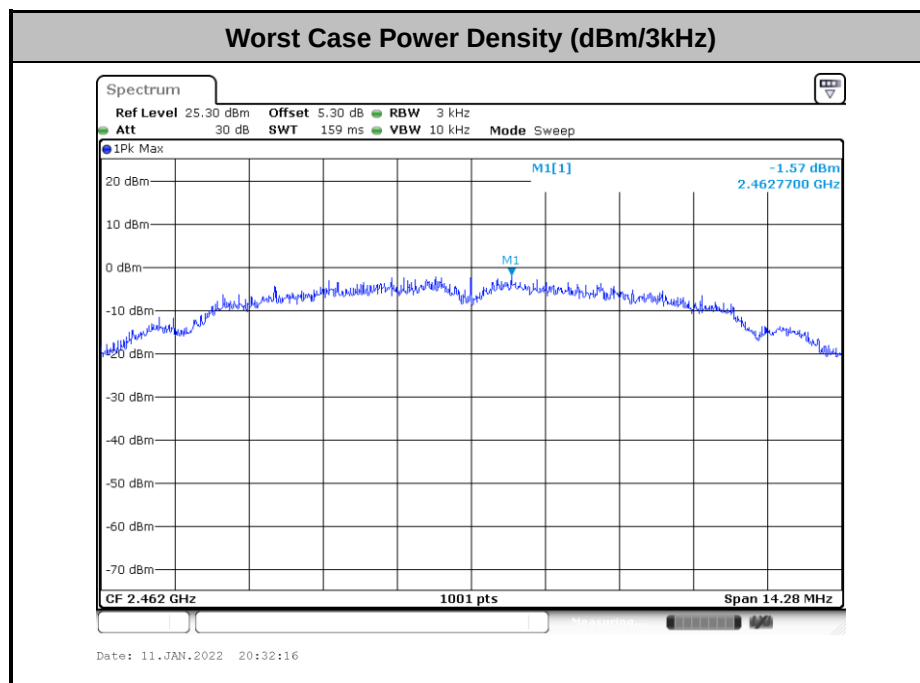
1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



## 3.4 Conducted Band Edges and Spurious Emission Measurement

### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

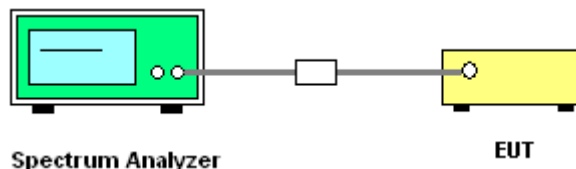
### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.4.4 Test Setup



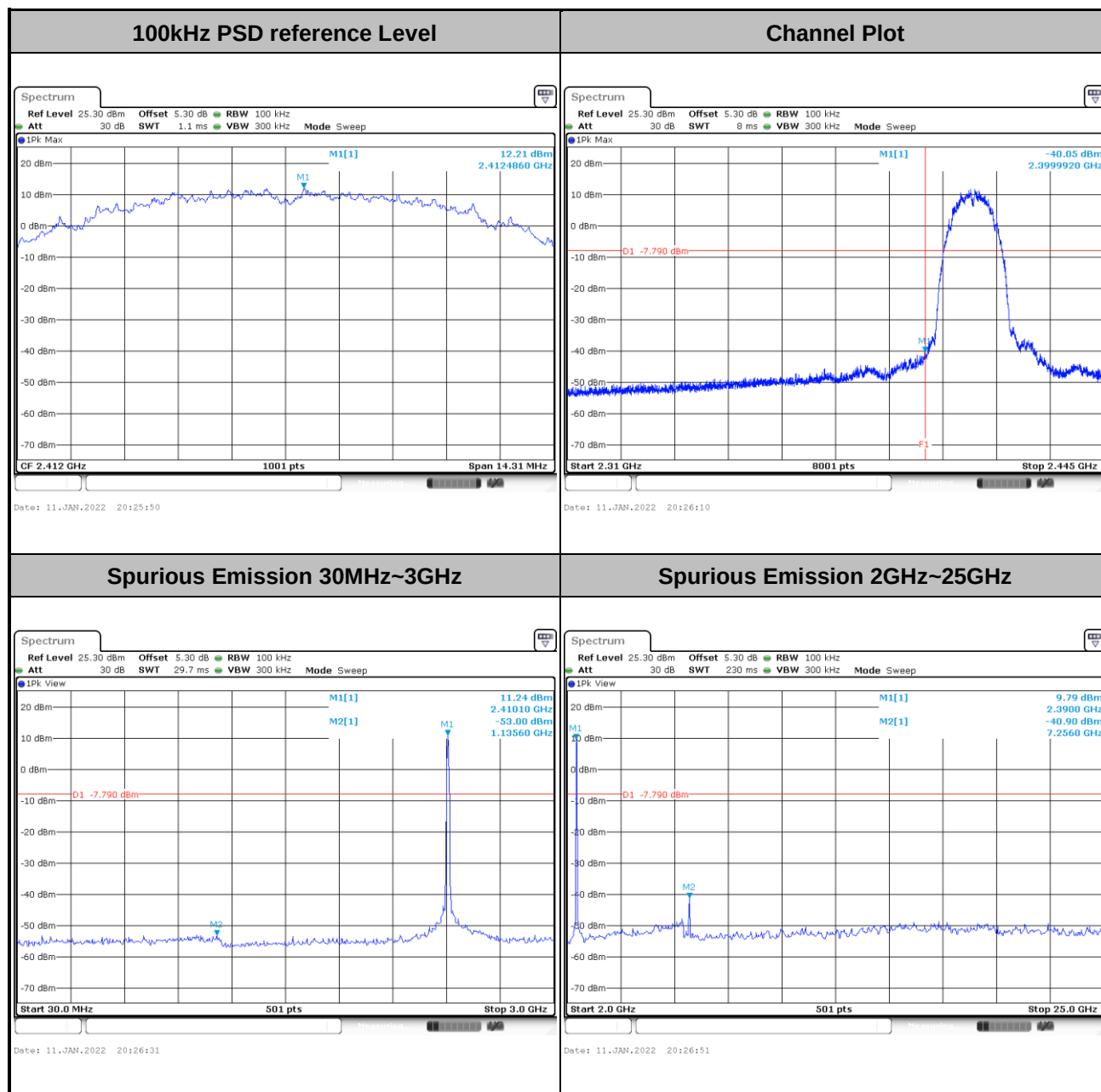


## 3.4.5 Test Result of Conducted Band Edges and Spurious Emission

|                 |             |                     |         |
|-----------------|-------------|---------------------|---------|
| Test Engineer : | Jacob Zhang | Temperature :       | 21~25°C |
|                 |             | Relative Humidity : | 51~54%  |

Number of TX = 1, Ant. 1 (Measured)

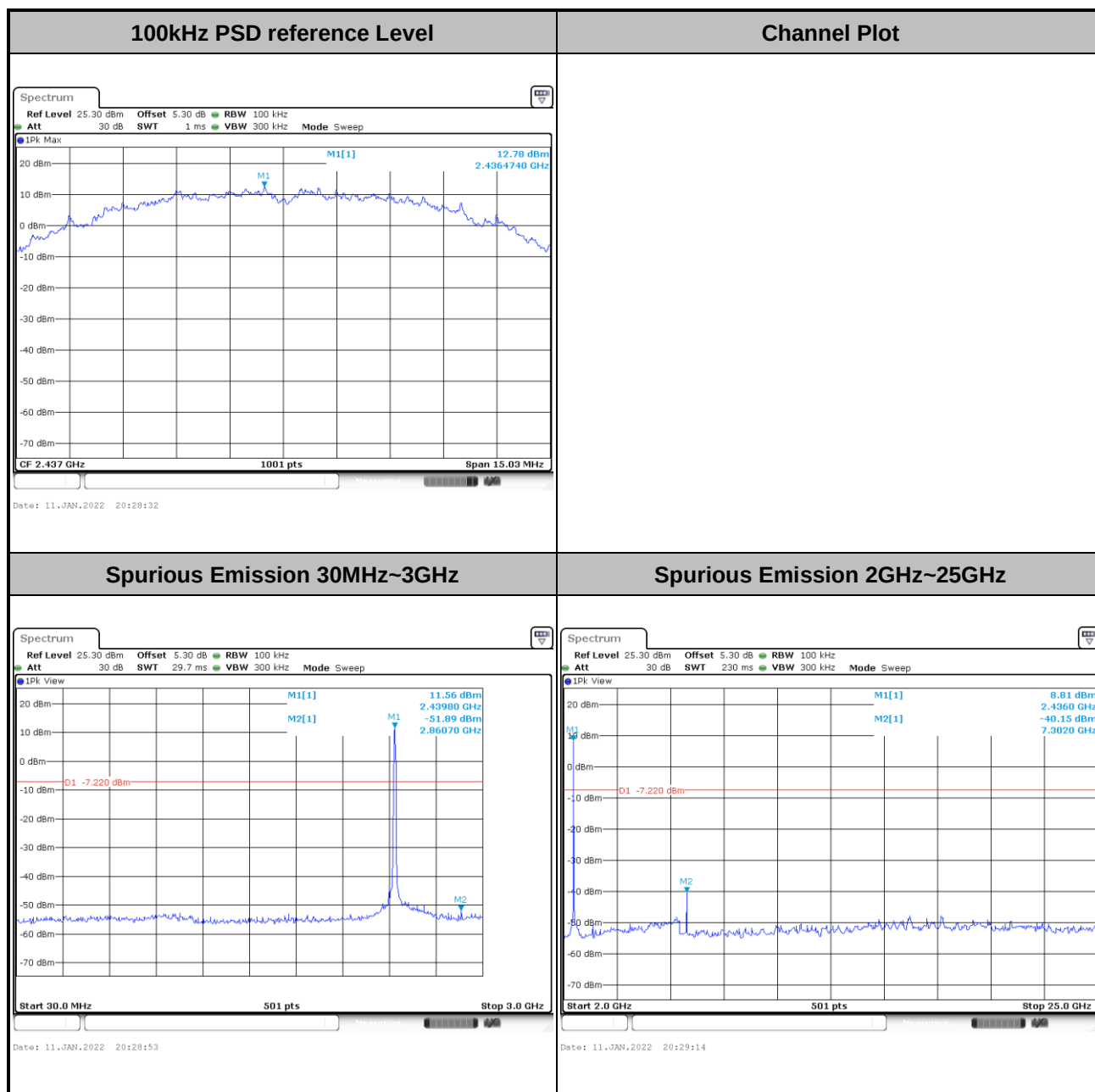
|             |         |                |    |
|-------------|---------|----------------|----|
| Test Mode : | 802.11b | Test Channel : | 01 |
|-------------|---------|----------------|----|





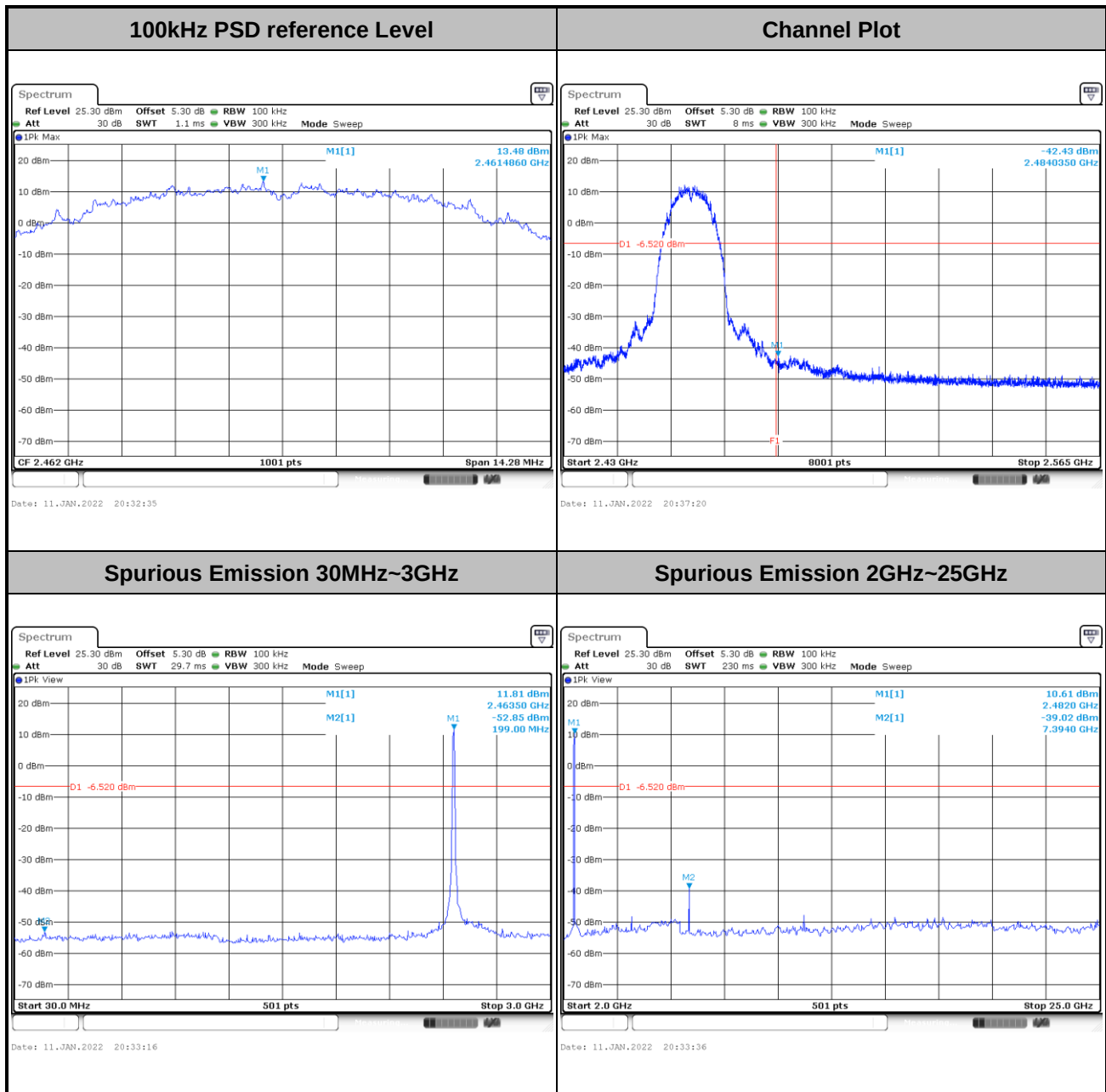


|             |         |                |    |
|-------------|---------|----------------|----|
| Test Mode : | 802.11b | Test Channel : | 06 |
|-------------|---------|----------------|----|





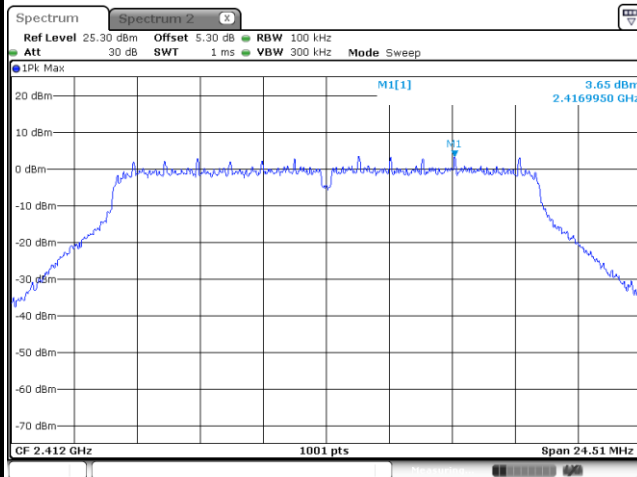
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| Test Mode : | 802.11b | Test Channel : | 11 |
|-------------|---------|----------------|----|



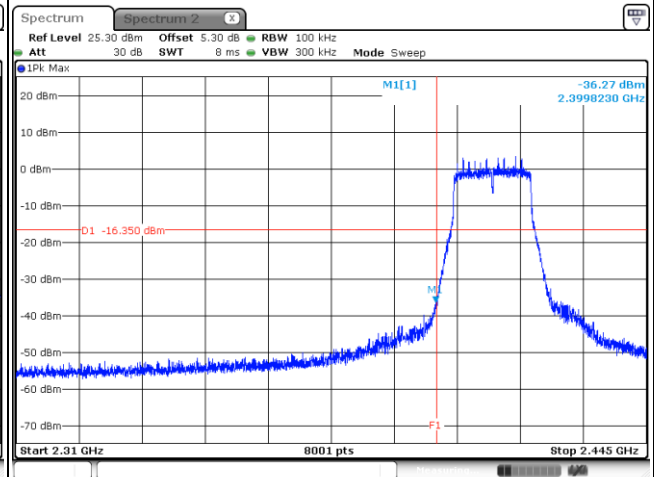


|             |         |                |    |
|-------------|---------|----------------|----|
| Test Mode : | 802.11g | Test Channel : | 01 |
|-------------|---------|----------------|----|

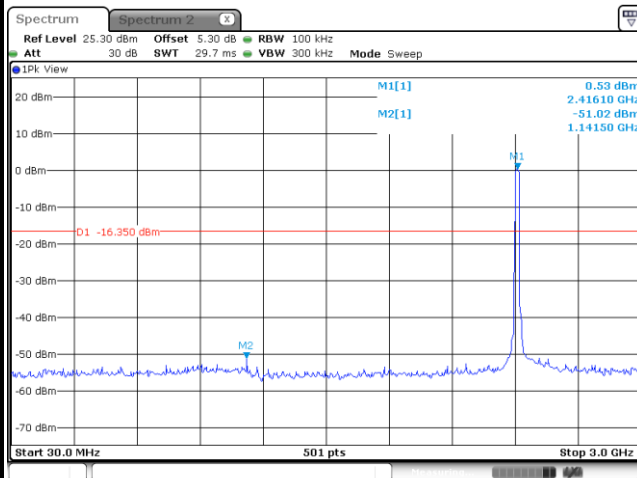
## 100kHz PSD reference Level



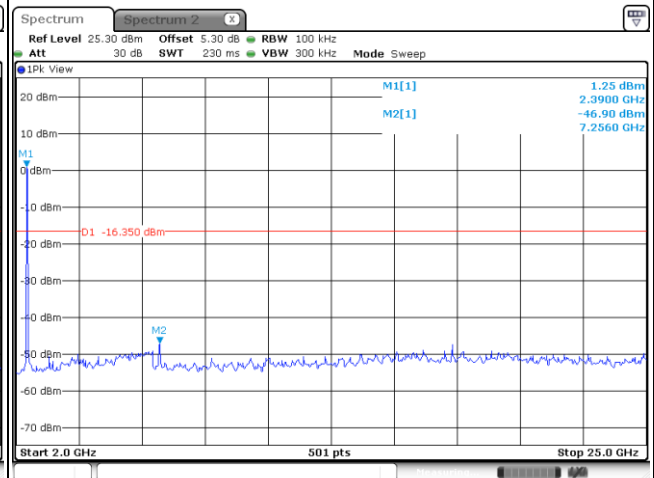
## Channel Plot



## Spurious Emission 30MHz~3GHz



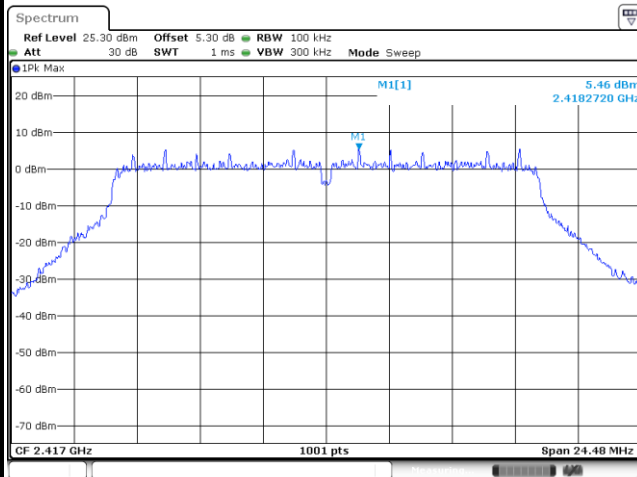
## Spurious Emission 2GHz~25GHz





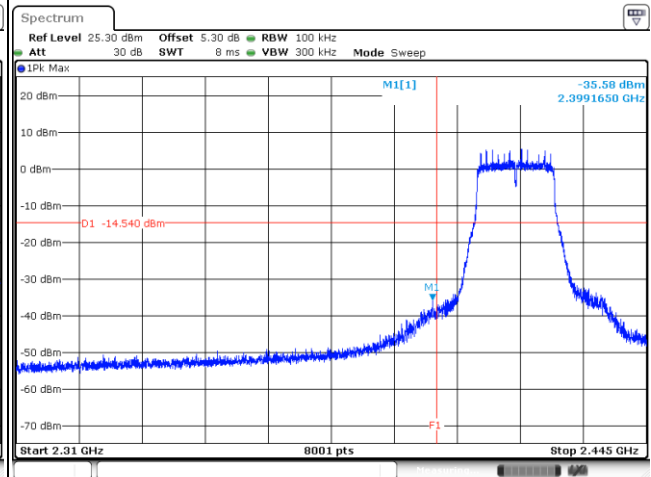
|             |         |                |    |
|-------------|---------|----------------|----|
| Test Mode : | 802.11g | Test Channel : | 02 |
|-------------|---------|----------------|----|

## 100kHz PSD reference Level



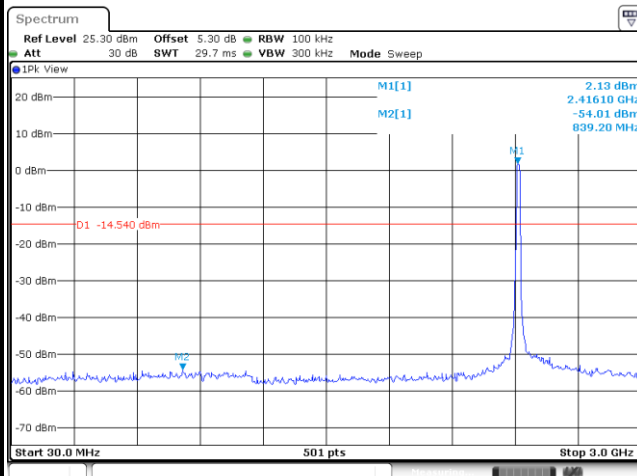
Date: 7.FEB.2022 14:44:17

## Channel Plot



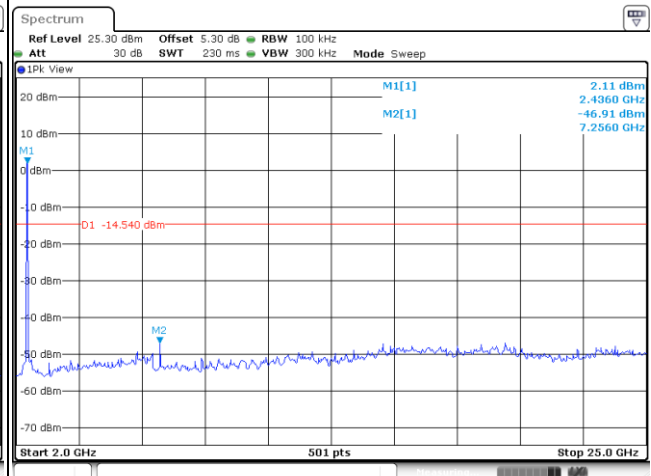
Date: 7.FEB.2022 14:44:36

## Spurious Emission 30MHz~3GHz



Date: 7.FEB.2022 14:48:19

## Spurious Emission 2GHz~25GHz

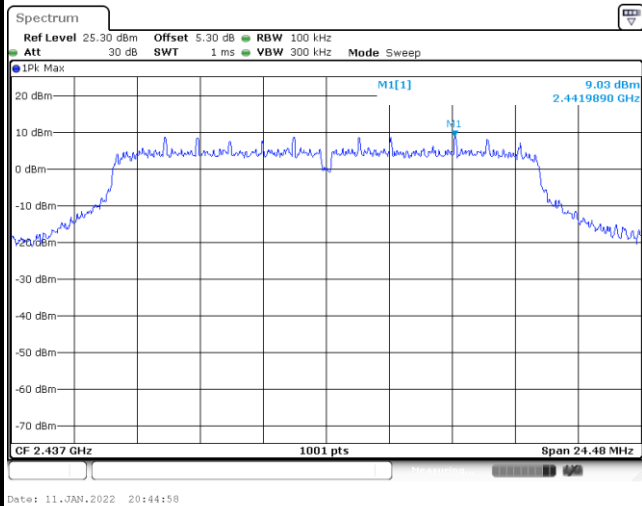


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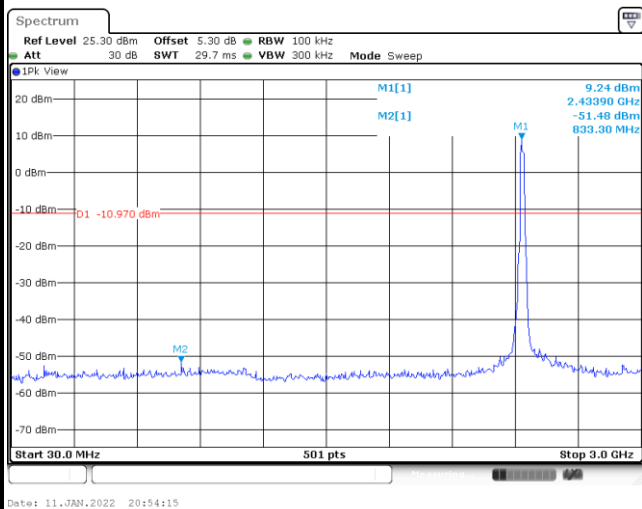
|             |         |                |    |
|-------------|---------|----------------|----|
| Test Mode : | 802.11g | Test Channel : | 06 |
|-------------|---------|----------------|----|

## 100kHz PSD reference Level

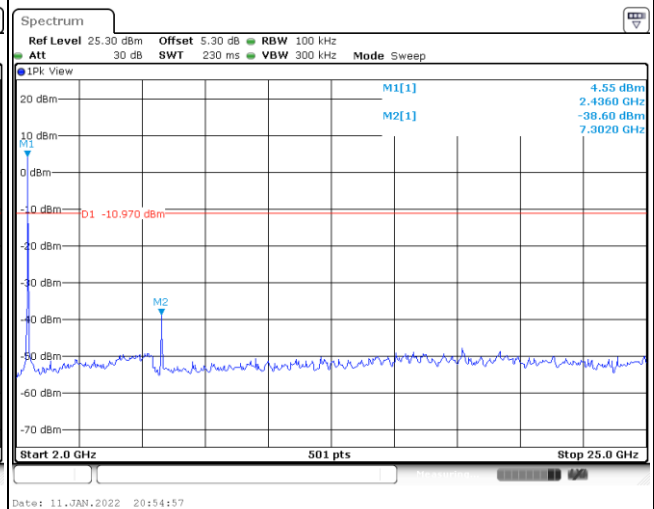


## Channel Plot

## Spurious Emission 30MHz~3GHz



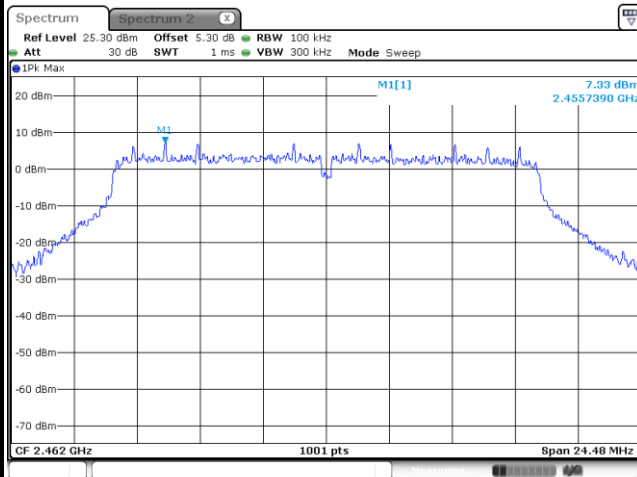
## Spurious Emission 2GHz~25GHz





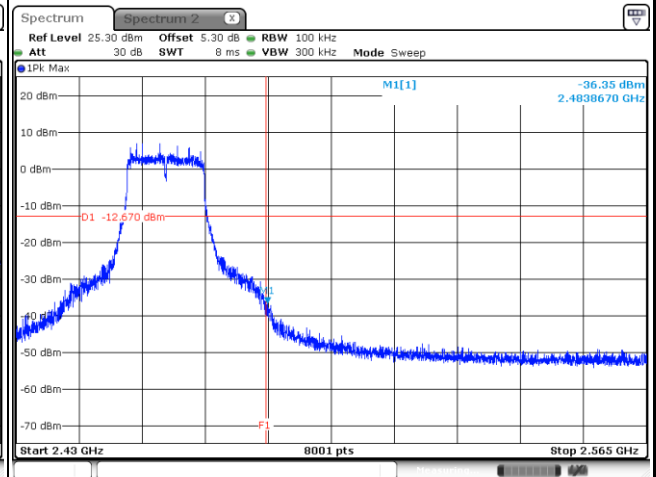
|             |         |                |    |
|-------------|---------|----------------|----|
| Test Mode : | 802.11g | Test Channel : | 11 |
|-------------|---------|----------------|----|

## 100kHz PSD reference Level



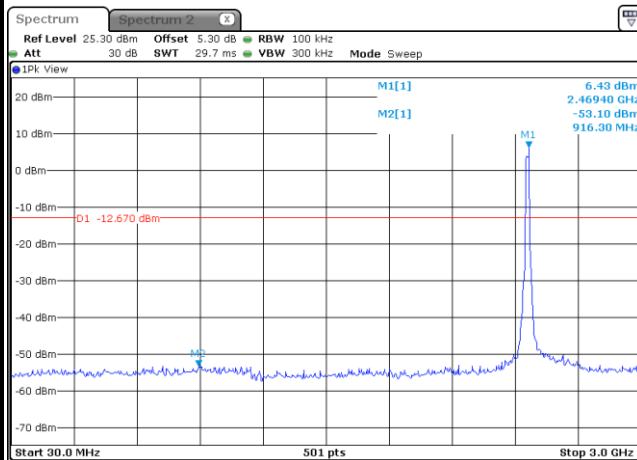
Date: 13.JAN.2022 15:02:46

## Channel Plot



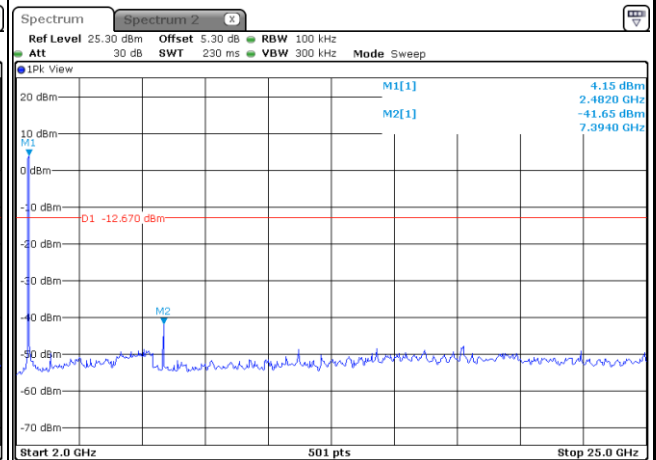
Date: 13.JAN.2022 15:05:23

## Spurious Emission 30MHz~3GHz



Date: 13.JAN.2022 15:03:26

## Spurious Emission 2GHz~25GHz

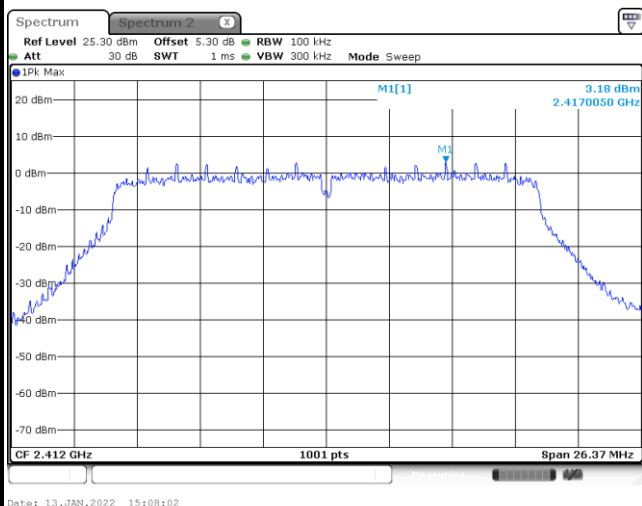


Date: 13.JAN.2022 15:03:47

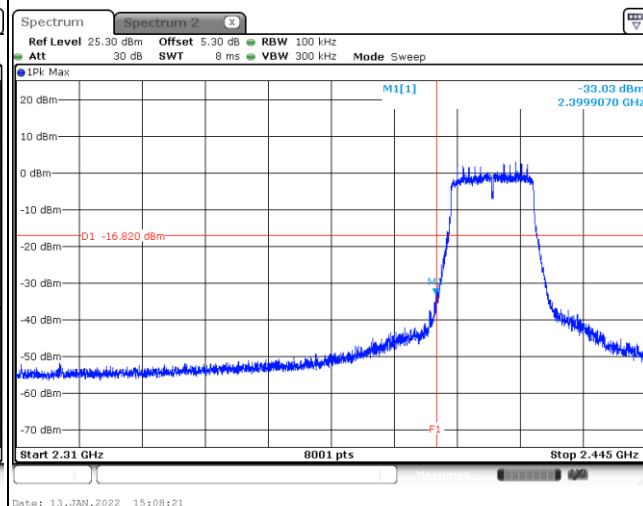


|             |              |                |    |
|-------------|--------------|----------------|----|
| Test Mode : | 802.11n HT20 | Test Channel : | 01 |
|-------------|--------------|----------------|----|

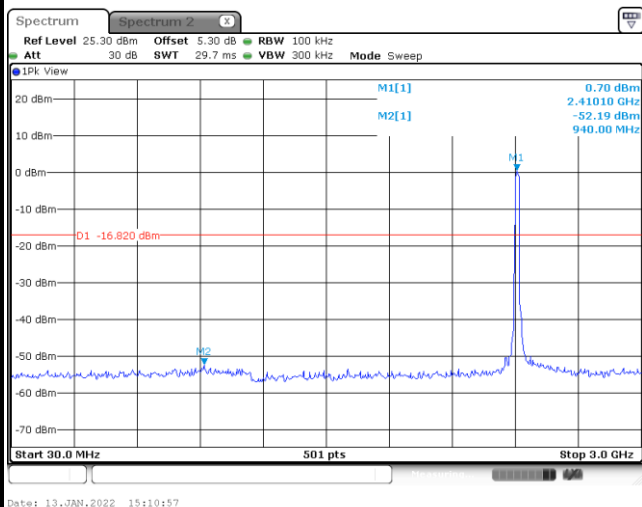
## 100kHz PSD reference Level



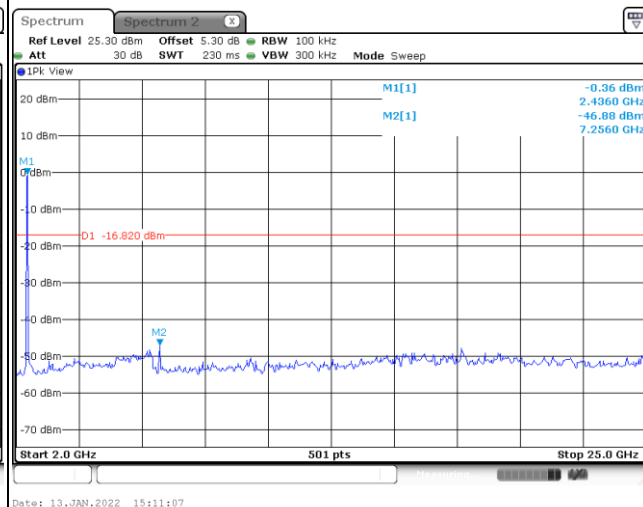
## Channel Plot



## Spurious Emission 30MHz~3GHz



## Spurious Emission 2GHz~25GHz

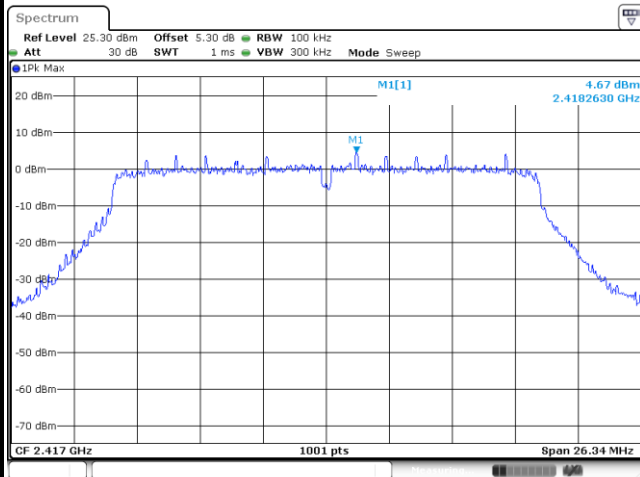




Test Mode : 802.11n HT20

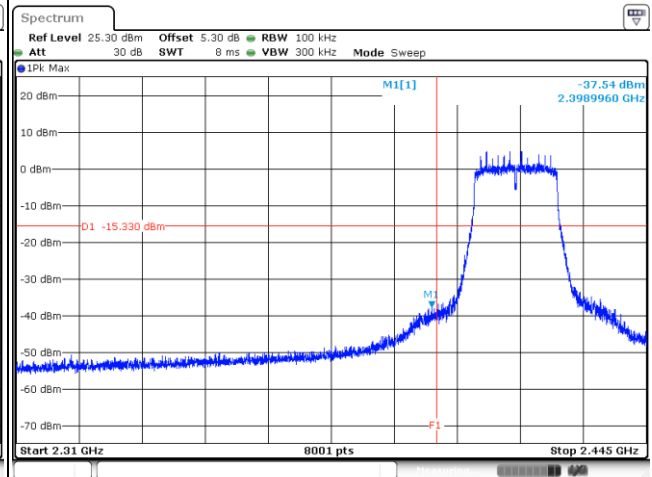
Test Channel : 02

## 100kHz PSD reference Level



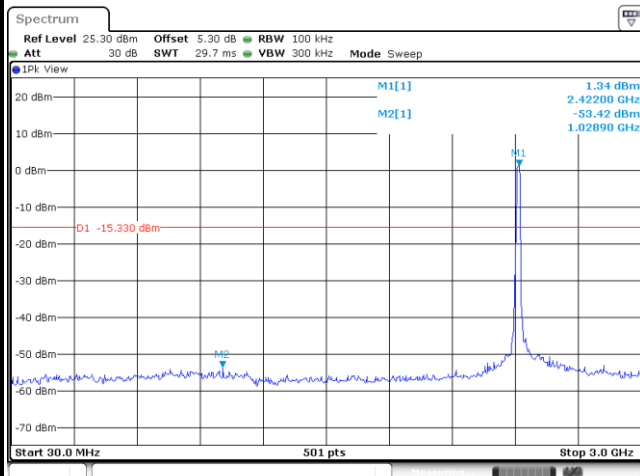
Date: 7.FEB.2022 14:51:38

## Channel Plot



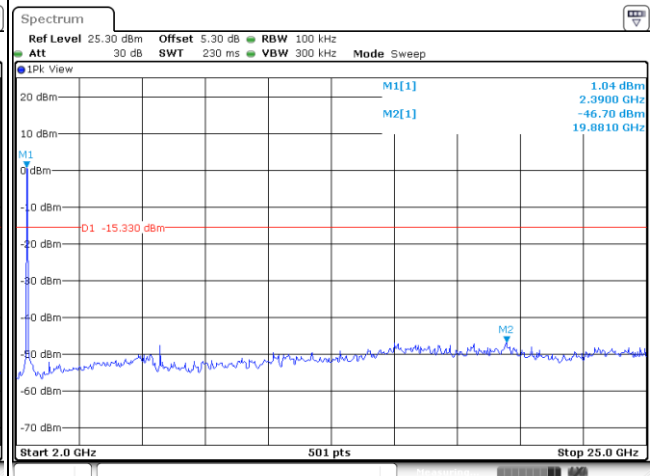
Date: 7.FEB.2022 14:51:57

## Spurious Emission 30MHz~3GHz



Date: 7.FEB.2022 14:52:18

## Spurious Emission 2GHz~25GHz

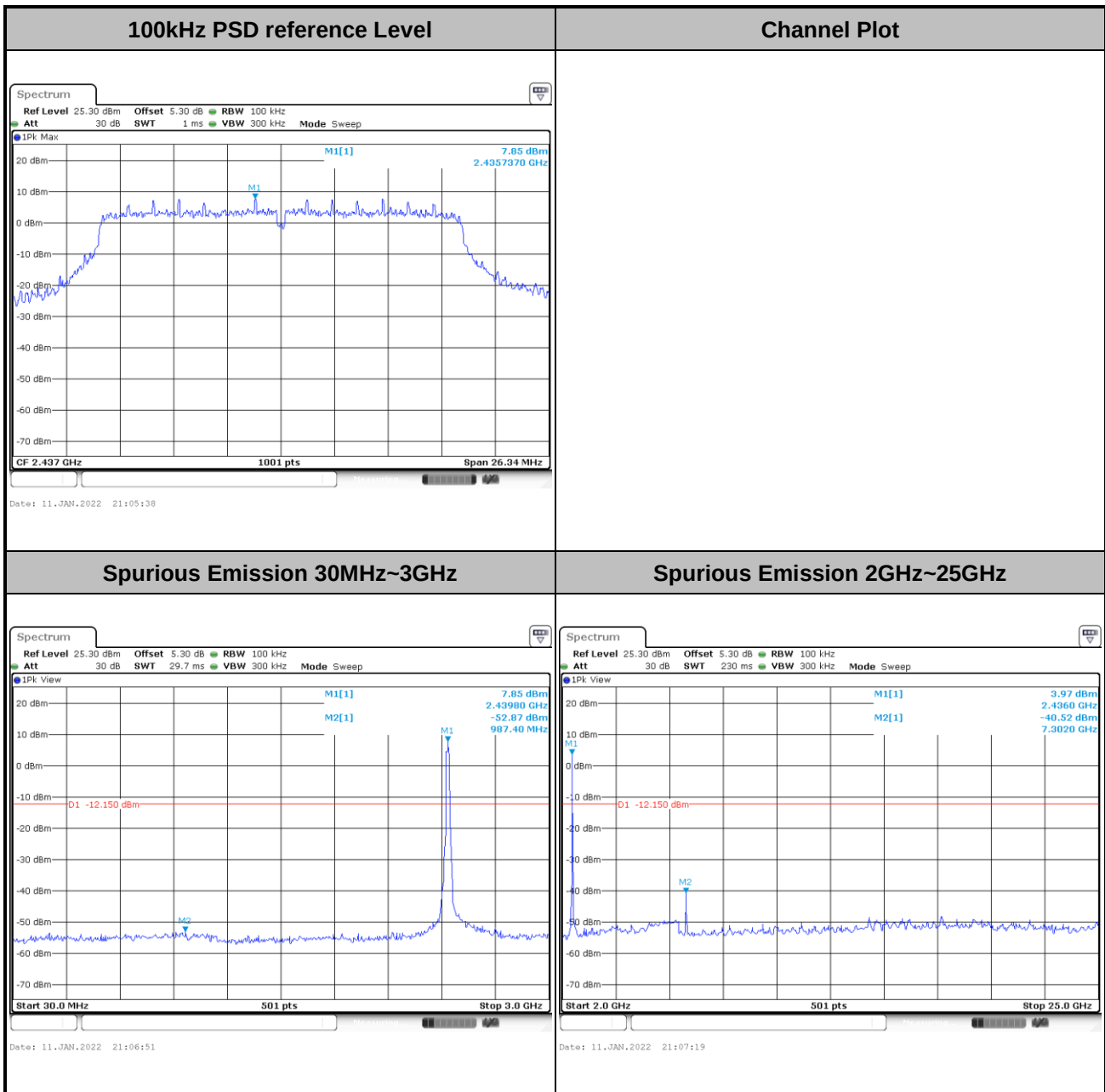


Date: 7.FEB.2022 14:52:38



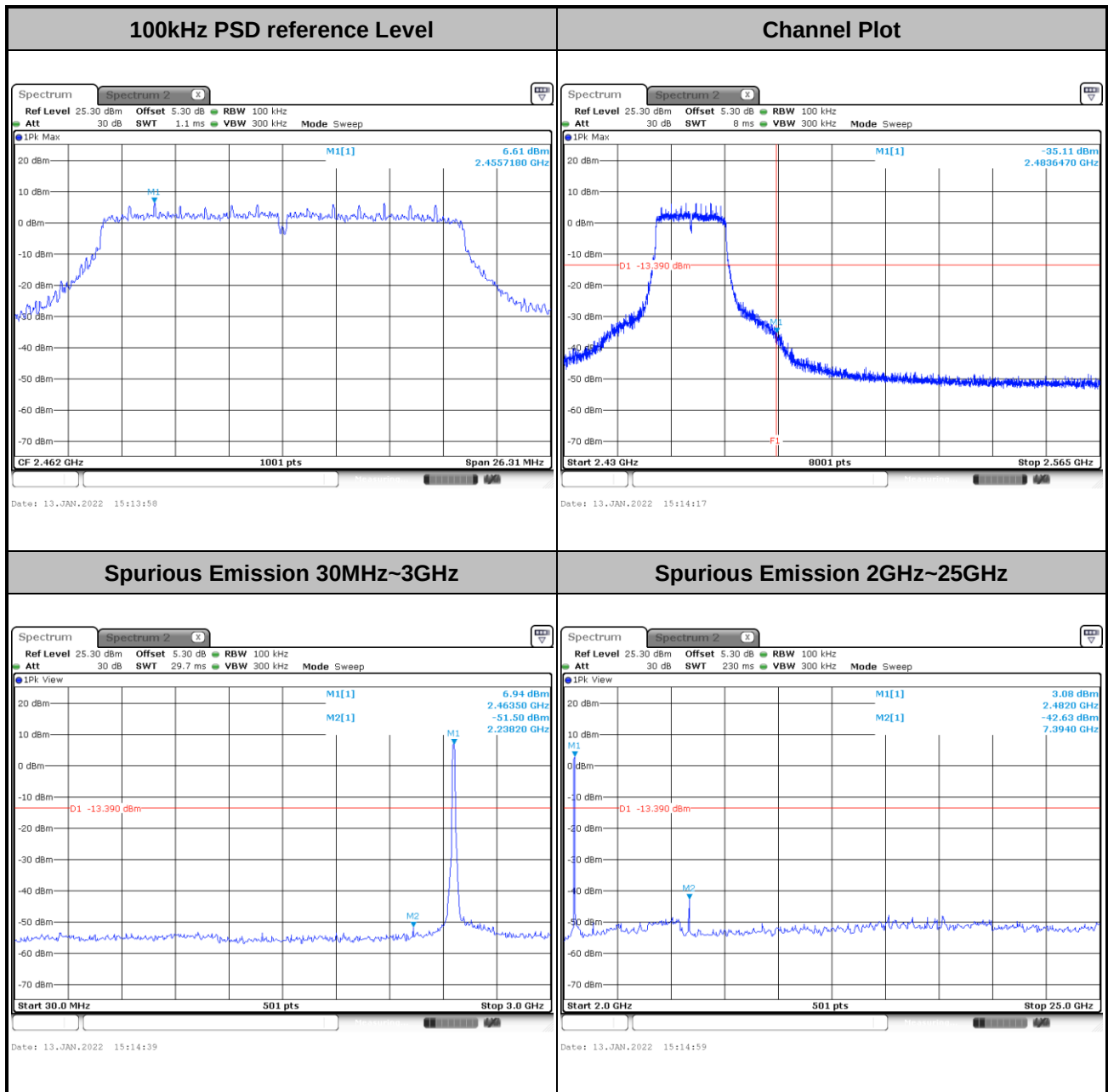


|             |              |                |    |
|-------------|--------------|----------------|----|
| Test Mode : | 802.11n HT20 | Test Channel : | 06 |
|-------------|--------------|----------------|----|





|             |              |                |    |
|-------------|--------------|----------------|----|
| Test Mode : | 802.11n HT20 | Test Channel : | 11 |
|-------------|--------------|----------------|----|

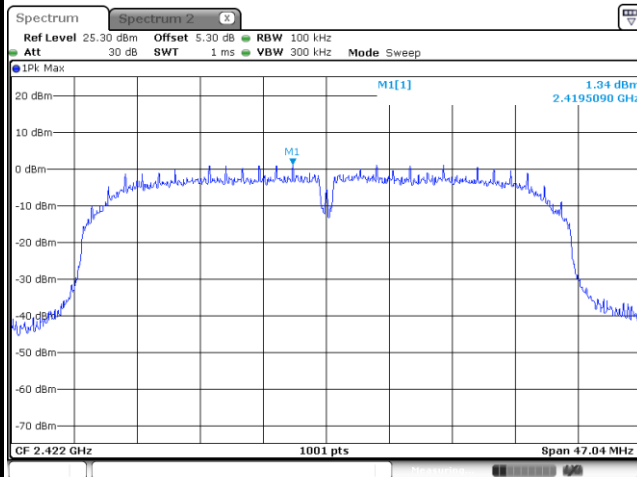




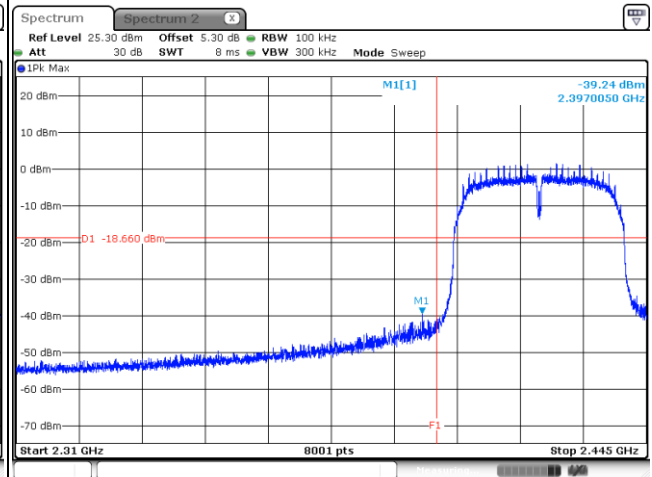
Test Mode : 802.11n HT40

Test Channel : 03

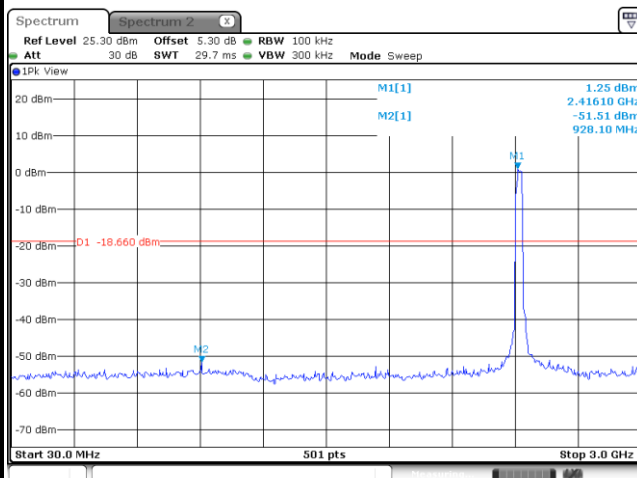
## 100kHz PSD reference Level



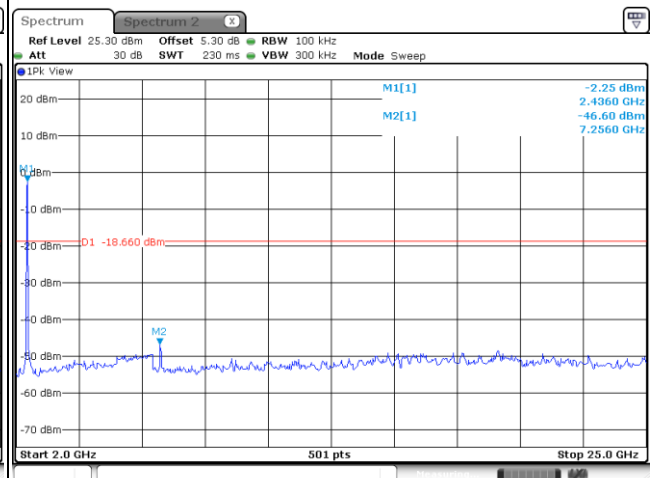
## Channel Plot



## Spurious Emission 30MHz~3GHz



## Spurious Emission 2GHz~25GHz

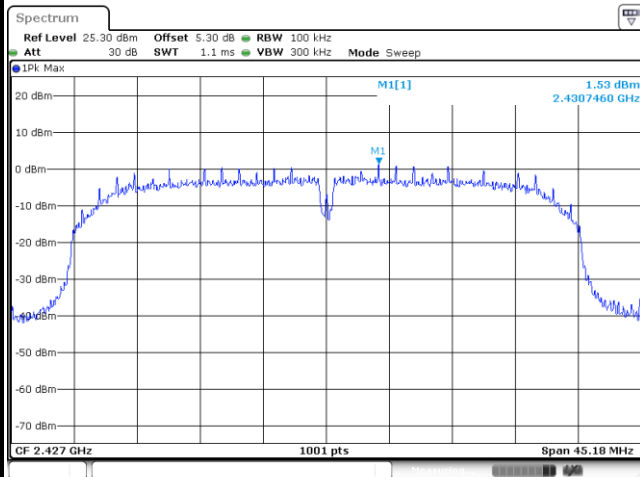




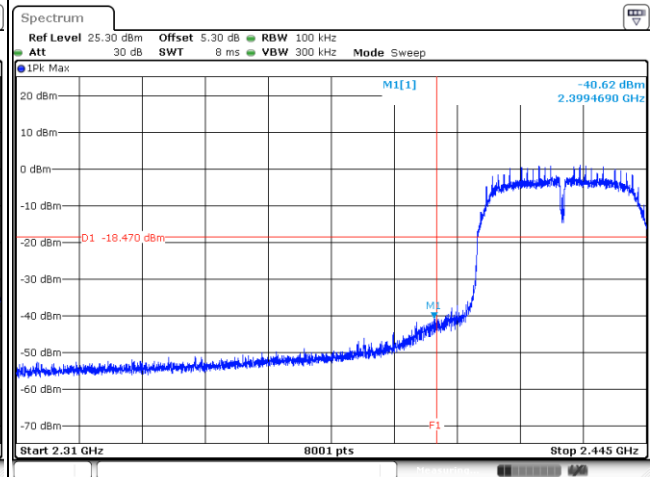
Test Mode : 802.11n HT40

Test Channel : 04

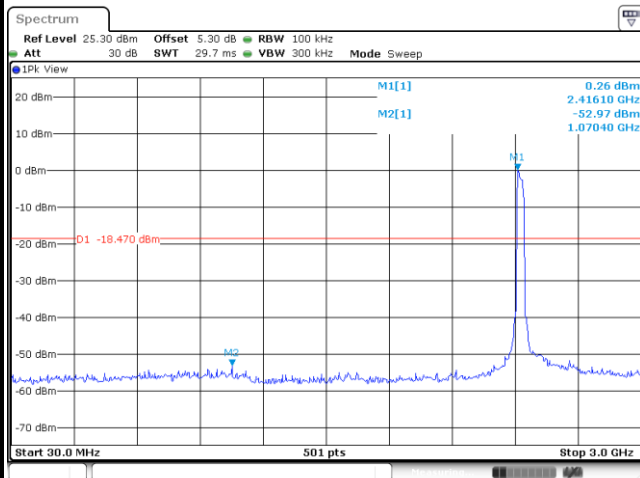
## 100kHz PSD reference Level



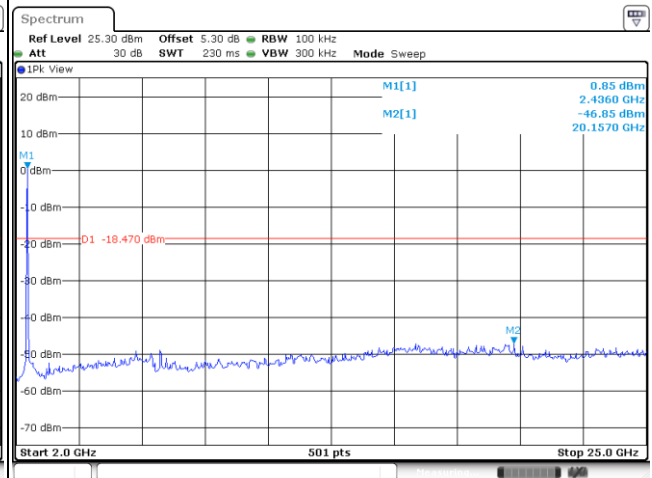
## Channel Plot



## Spurious Emission 30MHz~3GHz

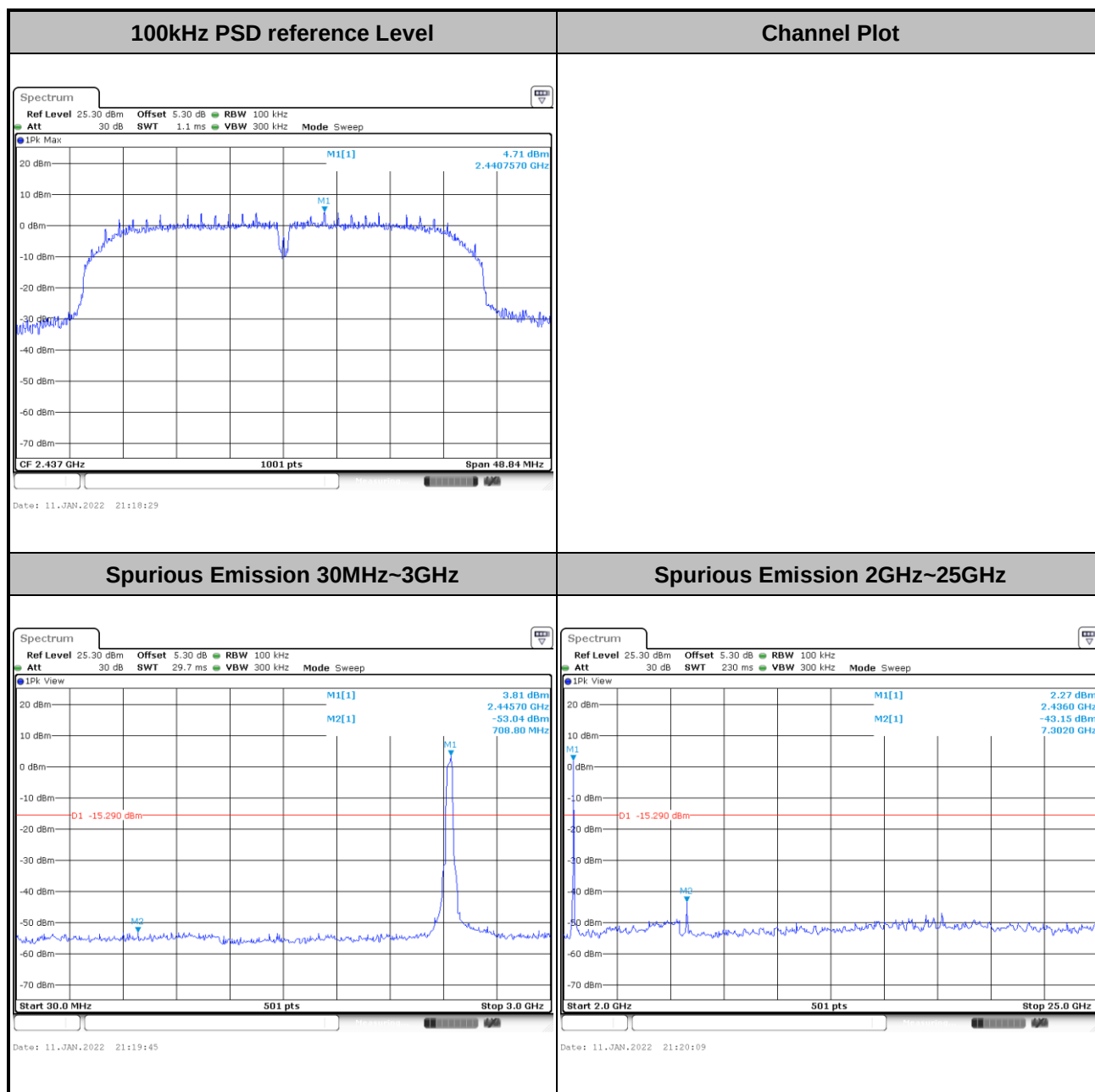


## Spurious Emission 2GHz~25GHz





|             |              |                |    |
|-------------|--------------|----------------|----|
| Test Mode : | 802.11n HT40 | Test Channel : | 06 |
|-------------|--------------|----------------|----|

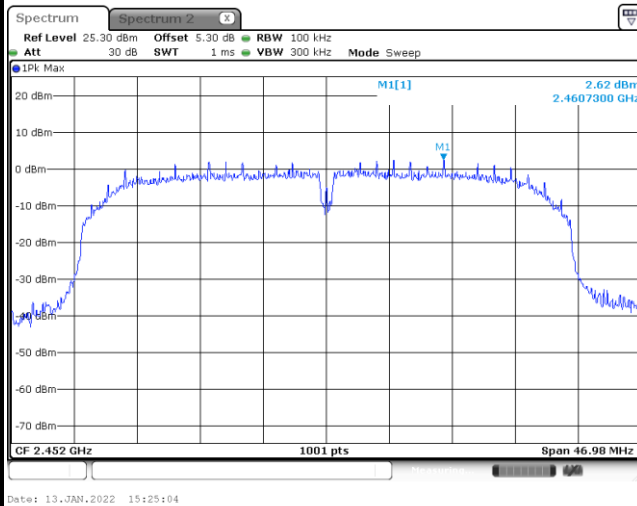




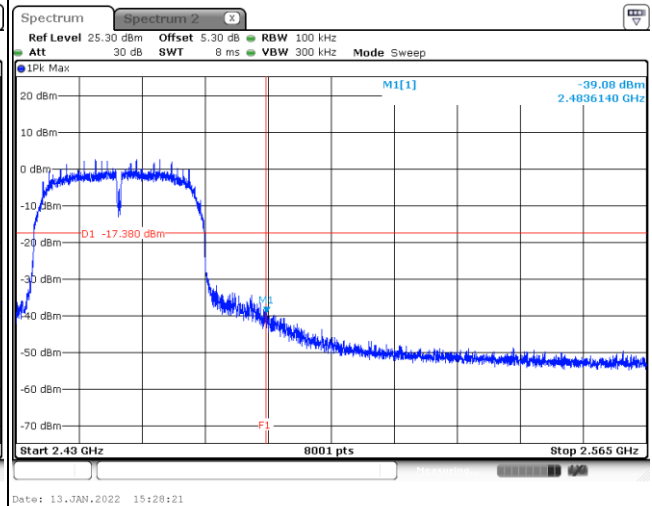
Test Mode : 802.11n HT40

Test Channel : 09

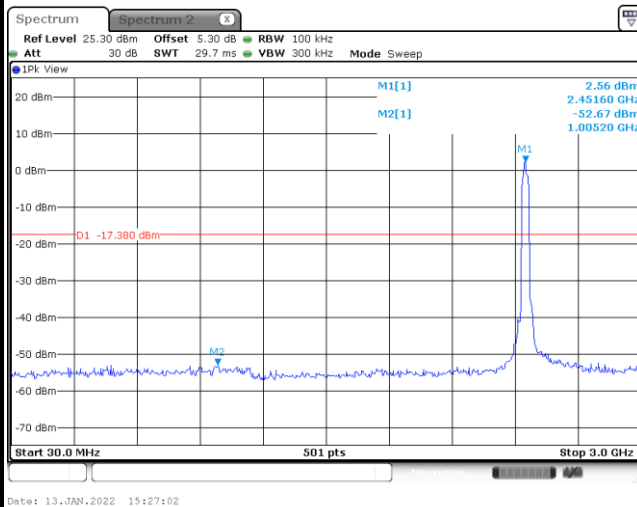
## 100kHz PSD reference Level



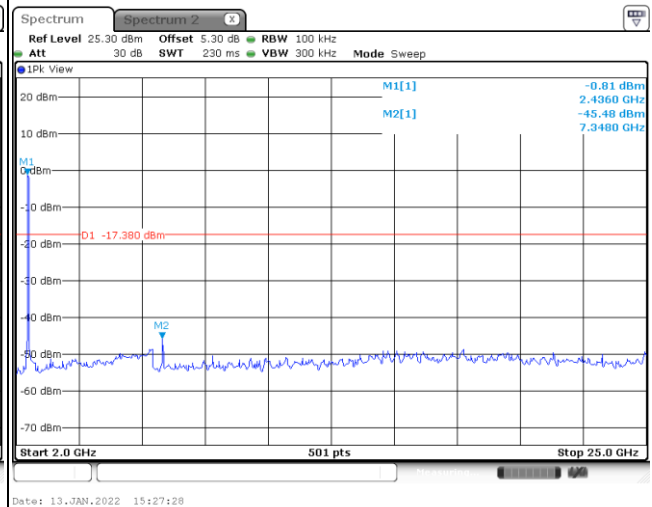
## Channel Plot



## Spurious Emission 30MHz~3GHz



## Spurious Emission 2GHz~25GHz



### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

#### 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



### 3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f \geq 1$  GHz for peak measurement.

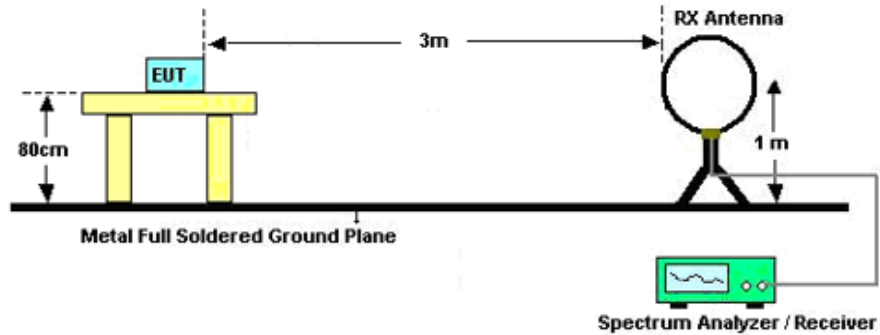
For average measurement:

    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

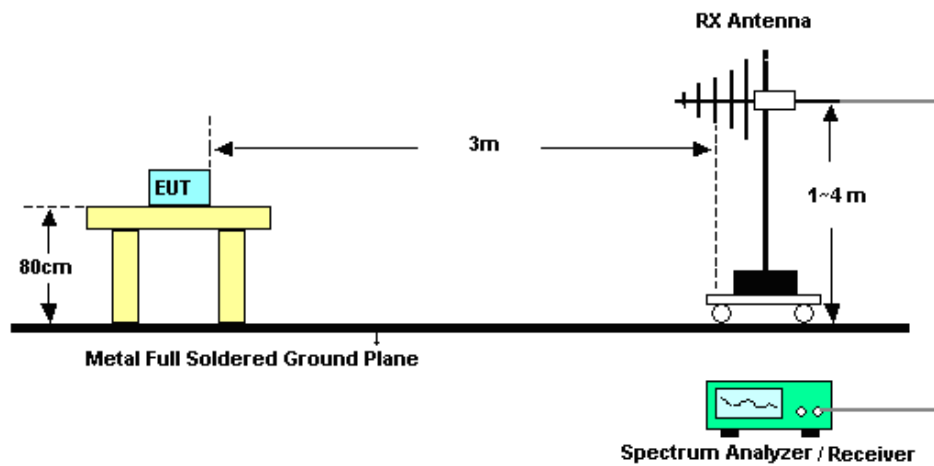


### 3.5.4 Test Setup

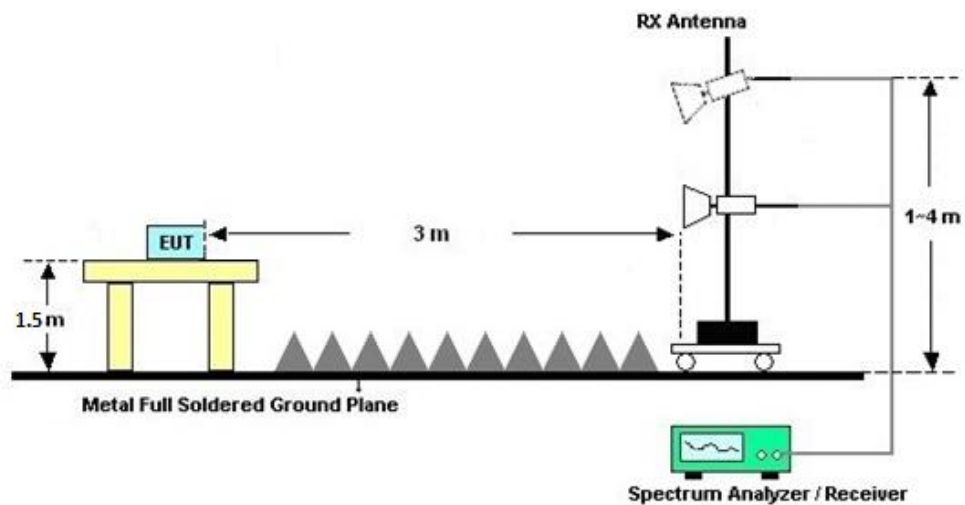
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

**3.5.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix C and Appendix D.

**3.5.7 Duty Cycle**

Please refer to Appendix E.

**3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)**

Please refer to Appendix C and Appendix D.

## 3.6 AC Conducted Emission Measurement

### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of Emission<br>(MHz) | Conducted Limit (dB $\mu$ V) |           |
|--------------------------------|------------------------------|-----------|
|                                | Quasi-Peak                   | Average   |
| 0.15-0.5                       | 66 to 56*                    | 56 to 46* |
| 0.5-5                          | 56                           | 46        |
| 5-30                           | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

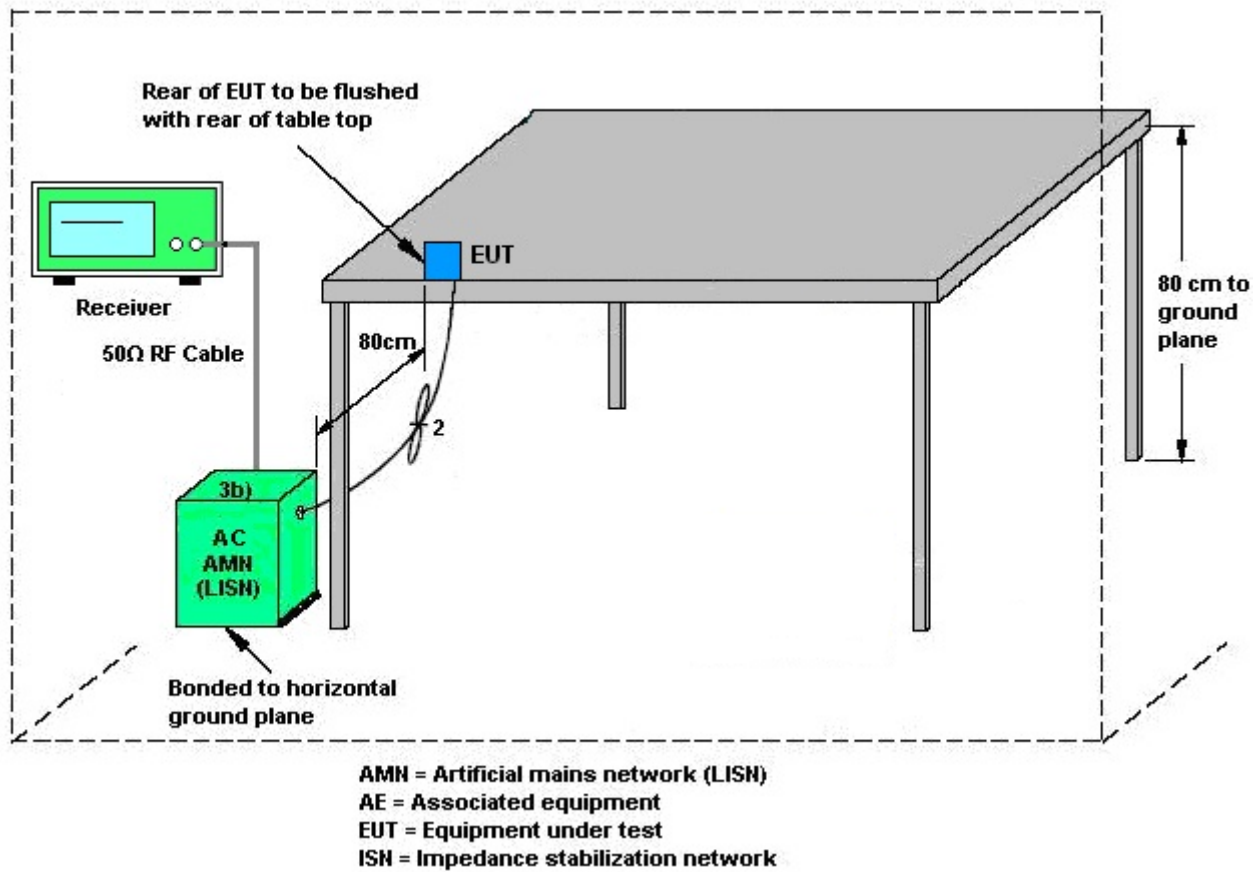
### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

| Instrument                | Manufacturer | Model No.                      | Serial No.   | Characteristics      | Calibration Date | Test Date                       | Due Date      | Remark                |
|---------------------------|--------------|--------------------------------|--------------|----------------------|------------------|---------------------------------|---------------|-----------------------|
| Spectrum Analyzer         | R&S          | FSV40                          | 101040       | 10Hz~40GHz           | Oct. 14, 2021    | Jan. 11, 2022~<br>Feb. 07, 2022 | Oct. 13, 2022 | Conducted (TH01-KS)   |
| Pulse Power Sensor        | Anritsu      | MA2411B                        | 0917070      | 300MHz~40GHz         | Jan. 05, 2022    | Jan. 11, 2022~<br>Feb. 07, 2022 | Jan. 04, 2023 | Conducted (TH01-KS)   |
| Power Meter               | Anritsu      | ML2495A                        | 1005002      | 50MHz Bandwidth      | Jan. 05, 2022    | Jan. 11, 2022~<br>Feb. 07, 2022 | Jan. 04, 2023 | Conducted (TH01-KS)   |
| EMI Test Receiver         | R&S          | ESR7                           | 101403       | 9kHz~7GHz;Max 30dBm  | Oct. 16, 2021    | Feb. 11, 2022                   | Oct. 15, 2022 | Radiation (03CH02-KS) |
| EXA Spectrum Analyzer     | Keysight     | N9010A                         | MY55370528   | 10Hz~44G,MAX 30dB    | Oct. 16, 2021    | Feb. 11, 2022                   | Oct. 15, 2022 | Radiation (03CH02-KS) |
| Loop Antenna              | R&S          | HFH2-Z2                        | 100321       | 9kHz~30MHz           | Oct. 30, 2021    | Feb. 11, 2022                   | Oct. 29, 2022 | Radiation (03CH02-KS) |
| Bilog Antenna             | TeseQ        | CBL6111D                       | 44483        | 30MHz-1GHz           | Dec. 22, 2021    | Feb. 11, 2022                   | Dec. 21, 2022 | Radiation (03CH02-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117                           | 75957        | 1GHz~18GHz           | Oct. 30, 2021    | Feb. 11, 2022                   | Oct. 29, 2022 | Radiation (03CH02-KS) |
| high gain Amplifier       | MITEQ        | AMF-7D-001<br>01800-30-10<br>P | 2025788      | 1Ghz-18Ghz           | Jul. 30, 2021    | Feb. 11, 2022                   | Jul. 29, 2023 | Radiation (03CH02-KS) |
| SHF-EHF Horn              | Com-power    | AH-840                         | 101070       | 18GHz~40GHz          | Jan. 05, 2022    | Feb. 11, 2022                   | Jan. 04, 2023 | Radiation (03CH02-KS) |
| Amplifier                 | SONOMA       | 310N                           | 187289       | 9KHz-1GHz            | Apr. 13, 2021    | Feb. 11, 2022                   | Apr. 12, 2022 | Radiation (03CH02-KS) |
| Amplifier                 | Keysight     | 83017A                         | MY53270316   | 500MHz~26.5GHz       | Oct. 16, 2021    | Feb. 11, 2022                   | Oct. 15, 2022 | Radiation (03CH02-KS) |
| Amplifier                 | MITEQ        | EM18G40GGA                     | 060728       | 18~40GHz             | Jan. 05, 2022    | Feb. 11, 2022                   | Jan. 04, 2023 | Radiation (03CH02-KS) |
| AC Power Source           | Chroma       | 61601                          | 616010002473 | N/A                  | NCR              | Feb. 11, 2022                   | NCR           | Radiation (03CH02-KS) |
| Turn Table                | MF           | MF7802                         | N/A          | 0~360 degree         | NCR              | Feb. 11, 2022                   | NCR           | Radiation (03CH02-KS) |
| Antenna Mast              | MF           | MF7802                         | N/A          | 1 m~4 m              | NCR              | Feb. 11, 2022                   | NCR           | Radiation (03CH02-KS) |
| EMI Test Receiver         | Keysight     | N9038A                         | MY56400004   | 3Hz~8.5GHz;Max 30dBm | Oct. 16, 2021    | Feb. 11, 2022                   | Oct. 15, 2022 | Radiation (03CH05-KS) |
| EXA Spectrum Analyzer     | Keysight     | N9010A                         | MY55150244   | 10Hz~44G,MAX 30dB    | Apr.13, 2021     | Feb. 11, 2022                   | Apr. 12, 2022 | Radiation (03CH05-KS) |
| Loop Antenna              | R&S          | HFH2-Z2                        | 100321       | 9kHz~30MHz           | Oct. 30, 2021    | Feb. 11, 2022                   | Oct. 29, 2022 | Radiation (03CH05-KS) |
| Bilog Antenna             | TeseQ        | CBL6111D                       | 49922        | 30MHz-1GHz           | Jun. 04, 2021    | Feb. 11, 2022                   | Jun. 03, 2022 | Radiation (03CH05-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117                           | 00218652     | 1GHz~18GHz           | Apr. 24, 2021    | Feb. 11, 2022                   | Apr. 23, 2022 | Radiation (03CH05-KS) |
| SHF-EHF Horn              | Com-power    | AH-840                         | 101070       | 18GHz~40GHz          | Jan. 05, 2022    | Feb. 11, 2022                   | Jan. 04, 2023 | Radiation (03CH05-KS) |
| Amplifier                 | SONOMA       | 310N                           | 187289       | 9KHz-1GHz            | Apr. 12, 2021    | Feb. 11, 2022                   | Apr. 11, 2022 | Radiation (03CH05-KS) |
| Amplifier                 | MITEQ        | EM18G40GGA                     | 060728       | 18~40GHz             | Jan. 05, 2022    | Feb. 11, 2022                   | Jan. 04, 2023 | Radiation (03CH05-KS) |
| high gain Amplifier       | MITEQ        | AMF-7D-001<br>01800-30-10<br>P | 2012228      | 1Ghz-18Ghz           | Oct. 16, 2021    | Feb. 11, 2022                   | Oct. 15, 2022 | Radiation (03CH05-KS) |
| Amplifier                 | Keysight     | 83017A                         | MY53270316   | 500MHz~26.5GHz       | Oct. 16, 2021    | Feb. 11, 2022                   | Oct. 15, 2022 | Radiation (03CH05-KS) |
| AC Power Source           | Chroma       | 61601                          | F104090004   | N/A                  | NCR              | Feb. 11, 2022                   | NCR           | Radiation (03CH05-KS) |
| Turn Table                | ChamPro      | EM 1000-T                      | 060762-T     | 0~360 degree         | NCR              | Feb. 11, 2022                   | NCR           | Radiation (03CH05-KS) |
| Antenna Mast              | ChamPro      | EM 1000-A                      | 060762-A     | 1 m~4 m              | NCR              | Feb. 11, 2022                   | NCR           | Radiation (03CH05-KS) |
| EMI Receiver              | R&S          | ESCI7                          | 100768       | 9kHz~7GHz;           | Apr. 21, 2021    | Mar. 05, 2022                   | Apr. 20, 2022 | Conduction (CO01-KS)  |



|                                         |         |        |                  |                            |               |               |               |                         |
|-----------------------------------------|---------|--------|------------------|----------------------------|---------------|---------------|---------------|-------------------------|
| AC LISN<br>(for auxiliary<br>equipment) | MessTec | AN3016 | 060103           | 9kHz~30MHz                 | Oct. 14, 2021 | Mar. 05, 2022 | Oct. 13, 2022 | Conduction<br>(CO01-KS) |
| AC LISN                                 | R&S     | ENV216 | 100334           | 9kHz~30MHz                 | Apr. 13, 2021 | Mar. 05, 2022 | Apr. 12, 2022 | Conduction<br>(CO01-KS) |
| AC Power Source                         | Chroma  | 61602  | ABP00000<br>0811 | AC 0V~300V,<br>45Hz~1000Hz | Oct. 14, 2021 | Mar. 05, 2022 | Oct. 13, 2022 | Conduction<br>(CO01-KS) |

NCR: No Calibration Required

## 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage  $K=2$  to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.94dB |
|-------------------------------------------------------------------------|--------|

03CH02:

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.9dB |
|-------------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.0dB |
|-------------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.1dB |
|-------------------------------------------------------------------------|-------|

03CH05:

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.0dB |
|-------------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.0dB |
|-------------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.0dB |
|-------------------------------------------------------------------------|-------|

----- THE END -----





## **Appendix A. Conducted Test Results**

Report Number : FR1D1703B

**A1 - DTS Part**

|                |                     |                    |       |    |
|----------------|---------------------|--------------------|-------|----|
| Test Engineer: | Jacob Zhang         | Temperature:       | 21~25 | °C |
| Test Date:     | 2022/1/11~2022/2/07 | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| 2.4GHz Band |           |                 |     |             |                       |              |                    |           |
|-------------|-----------|-----------------|-----|-------------|-----------------------|--------------|--------------------|-----------|
| Mod.        | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
| 11b         | 1Mbps     | 1               | 1   | 2412        | 13.14                 | 9.54         | 0.50               | Pass      |
| 11b         | 1Mbps     | 1               | 6   | 2437        | 13.24                 | 10.02        | 0.50               | Pass      |
| 11b         | 1Mbps     | 1               | 11  | 2462        | 13.24                 | 9.52         | 0.50               | Pass      |
| 11g         | 6Mbps     | 1               | 1   | 2412        | 19.03                 | 16.34        | 0.50               | Pass      |
| 11g         | 6Mbps     | 1               | 2   | 2417        | 18.33                 | 16.32        | 0.50               | Pass      |
| 11g         | 6Mbps     | 1               | 6   | 2437        | 19.28                 | 16.32        | 0.50               | Pass      |
| 11g         | 6Mbps     | 1               | 11  | 2462        | 19.28                 | 16.32        | 0.50               | Pass      |
| HT20        | MCS0      | 1               | 1   | 2412        | 19.28                 | 17.58        | 0.50               | Pass      |
| HT20        | MCS0      | 1               | 2   | 2417        | 18.98                 | 17.56        | 0.50               | Pass      |
| HT20        | MCS0      | 1               | 6   | 2437        | 19.38                 | 17.56        | 0.50               | Pass      |
| HT20        | MCS0      | 1               | 11  | 2462        | 19.53                 | 17.54        | 0.50               | Pass      |
| HT40        | MCS0      | 1               | 3   | 2422        | 33.97                 | 31.36        | 0.50               | Pass      |
| HT40        | MCS0      | 1               | 4   | 2427        | 33.77                 | 30.12        | 0.50               | Pass      |
| HT40        | MCS0      | 1               | 6   | 2437        | 34.07                 | 32.56        | 0.50               | Pass      |
| HT40        | MCS0      | 1               | 9   | 2452        | 33.87                 | 31.32        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Peak Power Table**

| 2.4GHz Band |           |     |     |             |                            |                             |          |                  |                        |            |
|-------------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| Mod.        | Data Rate | Ntx | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
| 11b         | 1Mbps     | 1   | 1   | 2412        | 23.03                      | 30.00                       | 3.26     | 26.29            | 36.00                  | Pass       |
| 11b         | 1Mbps     | 1   | 6   | 2437        | 22.86                      | 30.00                       | 3.26     | 26.12            | 36.00                  | Pass       |
| 11b         | 1Mbps     | 1   | 11  | 2462        | 23.36                      | 30.00                       | 3.26     | 26.62            | 36.00                  | Pass       |
| 11g         | 6Mbps     | 1   | 1   | 2412        | 23.66                      | 30.00                       | 3.26     | 26.92            | 36.00                  | Pass       |
| 11g         | 6Mbps     | 1   | 2   | 2417        | 24.62                      | 30.00                       | 3.26     | 27.88            | 36.00                  | Pass       |
| 11g         | 6Mbps     | 1   | 6   | 2437        | 25.54                      | 30.00                       | 3.26     | 28.80            | 36.00                  | Pass       |
| 11g         | 6Mbps     | 1   | 11  | 2462        | 24.95                      | 30.00                       | 3.26     | 28.21            | 36.00                  | Pass       |
| HT20        | MCS0      | 1   | 1   | 2412        | 23.28                      | 30.00                       | 3.26     | 26.54            | 36.00                  | Pass       |
| HT20        | MCS0      | 1   | 2   | 2417        | 24.38                      | 30.00                       | 3.26     | 27.64            | 36.00                  | Pass       |
| HT20        | MCS0      | 1   | 6   | 2437        | 25.34                      | 30.00                       | 3.26     | 28.60            | 36.00                  | Pass       |
| HT20        | MCS0      | 1   | 11  | 2462        | 24.81                      | 30.00                       | 3.26     | 28.07            | 36.00                  | Pass       |
| HT40        | MCS0      | 1   | 3   | 2422        | 23.81                      | 30.00                       | 3.26     | 27.07            | 36.00                  | Pass       |
| HT40        | MCS0      | 1   | 4   | 2427        | 23.87                      | 30.00                       | 3.26     | 27.13            | 36.00                  | Pass       |
| HT40        | MCS0      | 1   | 6   | 2437        | 25.24                      | 30.00                       | 3.26     | 28.50            | 36.00                  | Pass       |
| HT40        | MCS0      | 1   | 9   | 2452        | 24.53                      | 30.00                       | 3.26     | 27.79            | 36.00                  | Pass       |

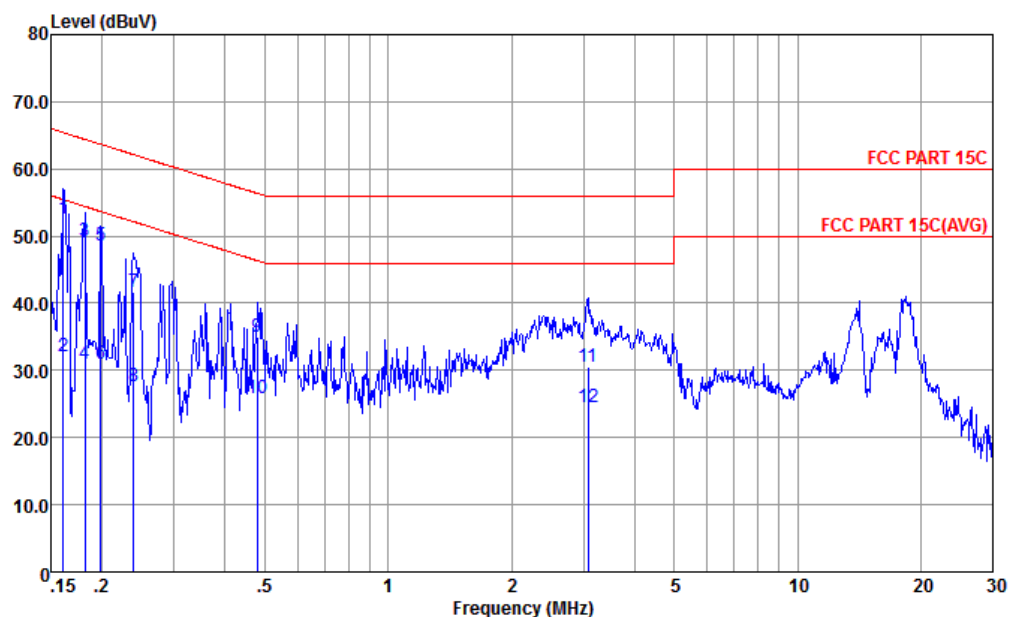
**TEST RESULTS DATA**  
**Peak Power Density**

| 2.4GHz Band |           |     |     |             |                      |          |                            |           |
|-------------|-----------|-----|-----|-------------|----------------------|----------|----------------------------|-----------|
| Mod.        | Data Rate | Ntx | CH. | Freq. (MHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
| 11b         | 1Mbps     | 1   | 1   | 2412        | -1.97                | 3.26     | 8.00                       | Pass      |
| 11b         | 1Mbps     | 1   | 6   | 2437        | -1.94                | 3.26     | 8.00                       | Pass      |
| 11b         | 1Mbps     | 1   | 11  | 2462        | -1.57                | 3.26     | 8.00                       | Pass      |
| 11g         | 6Mbps     | 1   | 1   | 2412        | -10.16               | 3.26     | 8.00                       | Pass      |
| 11g         | 6Mbps     | 1   | 2   | 2417        | -8.84                | 3.26     | 8.00                       | Pass      |
| 11g         | 6Mbps     | 1   | 6   | 2437        | -5.58                | 3.26     | 8.00                       | Pass      |
| 11g         | 6Mbps     | 1   | 11  | 2462        | -6.67                | 3.26     | 8.00                       | Pass      |
| HT20        | MCS0      | 1   | 1   | 2412        | -10.24               | 3.26     | 8.00                       | Pass      |
| HT20        | MCS0      | 1   | 2   | 2417        | -9.33                | 3.26     | 8.00                       | Pass      |
| HT20        | MCS0      | 1   | 6   | 2437        | -5.60                | 3.26     | 8.00                       | Pass      |
| HT20        | MCS0      | 1   | 11  | 2462        | -6.39                | 3.26     | 8.00                       | Pass      |
| HT40        | MCS0      | 1   | 3   | 2422        | -8.90                | 3.26     | 8.00                       | Pass      |
| HT40        | MCS0      | 1   | 4   | 2427        | -11.25               | 3.26     | 8.00                       | Pass      |
| HT40        | MCS0      | 1   | 6   | 2437        | -6.78                | 3.26     | 8.00                       | Pass      |
| HT40        | MCS0      | 1   | 9   | 2452        | -8.45                | 3.26     | 8.00                       | Pass      |



## Appendix B. AC Conducted Emission Test Results

|                 |                                                                                 |                     |             |
|-----------------|---------------------------------------------------------------------------------|---------------------|-------------|
| Test Engineer : | Amos Zhang                                                                      | Temperature :       | 25.3~26.2°C |
|                 |                                                                                 | Relative Humidity : | 38~40%      |
| Test Voltage :  | 120Vac / 60Hz                                                                   | Phase :             | Line        |
| Remark :        | All emissions not reported here are more than 10 dB below the prescribed limit. |                     |             |

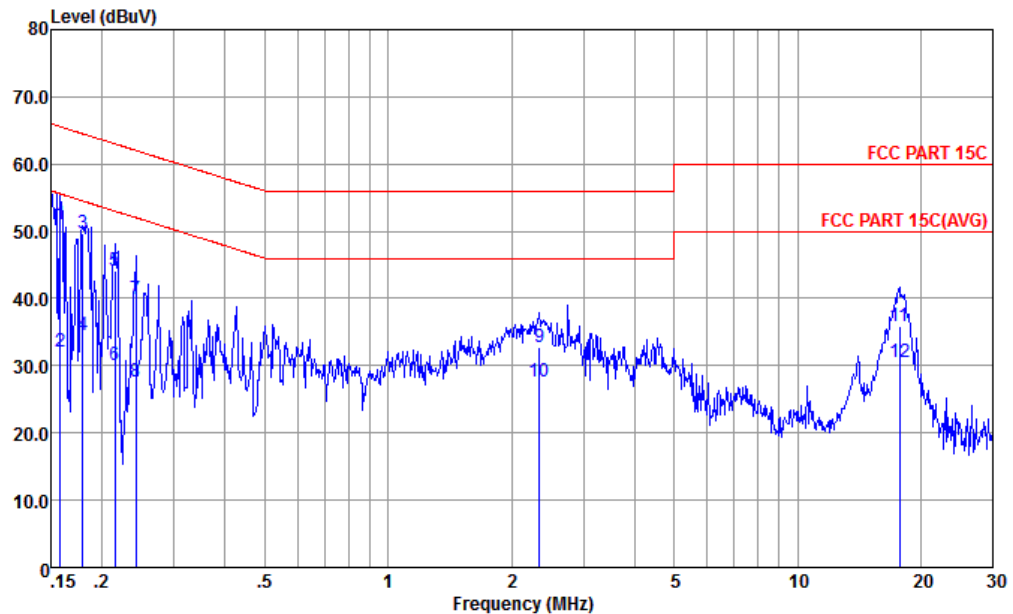


Site : CO01-KS  
Condition : FCC PART 15C LISN-060105-L LINE

|     | Freq  | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-----|-------|-------|--------|-------|-------|--------|-------|---------|
|     | MHz   | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|     |       |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1 * | 0.161 | 52.68 | -12.75 | 65.43 | 42.21 | 0.02   | 10.45 | QP      |
| 2   | 0.161 | 32.08 | -23.35 | 55.43 | 21.61 | 0.02   | 10.45 | Average |
| 3   | 0.182 | 49.34 | -15.08 | 64.42 | 38.91 | 0.03   | 10.40 | QP      |
| 4   | 0.182 | 31.04 | -23.38 | 54.42 | 20.61 | 0.03   | 10.40 | Average |
| 5   | 0.199 | 48.61 | -15.06 | 63.67 | 38.20 | 0.04   | 10.37 | QP      |
| 6   | 0.199 | 31.01 | -22.66 | 53.67 | 20.60 | 0.04   | 10.37 | Average |
| 7   | 0.239 | 41.59 | -20.54 | 62.13 | 31.20 | 0.05   | 10.34 | QP      |
| 8   | 0.239 | 27.59 | -24.54 | 52.13 | 17.20 | 0.05   | 10.34 | Average |
| 9   | 0.479 | 34.94 | -21.42 | 56.36 | 24.60 | 0.10   | 10.24 | QP      |
| 10  | 0.479 | 25.84 | -20.52 | 46.36 | 15.50 | 0.10   | 10.24 | Average |
| 11  | 3.074 | 30.59 | -25.41 | 56.00 | 20.20 | 0.15   | 10.24 | QP      |
| 12  | 3.074 | 24.59 | -21.41 | 46.00 | 14.20 | 0.15   | 10.24 | Average |



|                 |                                                                                 |                     |             |
|-----------------|---------------------------------------------------------------------------------|---------------------|-------------|
| Test Engineer : | Amos Zhang                                                                      | Temperature :       | 25.3~26.2°C |
|                 |                                                                                 | Relative Humidity : | 38~40%      |
| Test Voltage :  | 120Vac / 60Hz                                                                   | Phase :             | Neutral     |
| Remark :        | All emissions not reported here are more than 10 dB below the prescribed limit. |                     |             |



Site : CO01-KS  
Condition : FCC PART 15C LISN-060105-N NEUTRAL

|     | Freq   | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-----|--------|-------|--------|-------|-------|--------|-------|---------|
|     | MHz    | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|     | MHz    | dBuV  | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1 * | 0.158  | 51.07 | -14.49 | 65.56 | 40.50 | 0.11   | 10.46 | QP      |
| 2   | 0.158  | 32.17 | -23.39 | 55.56 | 21.60 | 0.11   | 10.46 | Average |
| 3   | 0.180  | 49.71 | -14.79 | 64.50 | 39.20 | 0.10   | 10.41 | QP      |
| 4   | 0.180  | 34.61 | -19.89 | 54.50 | 24.10 | 0.10   | 10.41 | Average |
| 5   | 0.215  | 44.05 | -18.96 | 63.01 | 33.60 | 0.10   | 10.35 | QP      |
| 6   | 0.215  | 30.05 | -22.96 | 53.01 | 19.60 | 0.10   | 10.35 | Average |
| 7   | 0.242  | 39.94 | -22.10 | 62.04 | 29.50 | 0.10   | 10.34 | QP      |
| 8   | 0.242  | 27.74 | -24.30 | 52.04 | 17.30 | 0.10   | 10.34 | Average |
| 9   | 2.346  | 32.68 | -23.32 | 56.00 | 22.31 | 0.14   | 10.23 | QP      |
| 10  | 2.346  | 27.58 | -18.42 | 46.00 | 17.21 | 0.14   | 10.23 | Average |
| 11  | 17.755 | 35.98 | -24.02 | 60.00 | 25.10 | 0.43   | 10.45 | QP      |
| 12  | 17.755 | 30.58 | -19.42 | 50.00 | 19.70 | 0.43   | 10.45 | Average |

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



## Appendix C. Radiated Spurious Emission

|                 |          |                     |         |
|-----------------|----------|---------------------|---------|
| Test Engineer : | Henry LI | Temperature :       | 21~22°C |
|                 |          | Relative Humidity : | 43~45%  |

| Band        |      | Power setting |
|-------------|------|---------------|
| 11b Tx      | CH01 | 0             |
| 11b Tx      | CH06 | 0             |
| 11b Tx      | CH11 | 0             |
| 11g Tx      | CH01 | 16            |
| 11g Tx      | CH02 | 8             |
| 11g Tx      | CH06 | 0             |
| 11g Tx      | CH11 | 8             |
| 11n(20M) Tx | CH01 | 14            |
| 11n(20M) Tx | CH02 | 5             |
| 11n(20M) Tx | CH06 | 0             |
| 11n(20M) Tx | CH11 | 6             |
| 11n(40M) Tx | CH03 | 10            |
| 11n(40M) Tx | CH04 | 7             |
| 11n(40M) Tx | CH06 | 0             |
| 11n(40M) Tx | CH09 | 7             |





## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Band Edge @ 3m)

| WIFI                        | Note                                                                                        | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|---------------------------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |                                                                                             |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                           |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b<br>CH 01<br>2412MHz |                                                                                             | 2385.79   | 61.51      | -12.49 | 74         | 60.77    | 30.5     | 7.1    | 36.86  | 163    | 348     | P       | H       |
|                             |                                                                                             | 2385.79   | 50.77      | -3.23  | 54         | 50.03    | 30.5     | 7.1    | 36.86  | 163    | 348     | A       | H       |
|                             | *                                                                                           | 2410      | 117.12     | -      | -          | 116.27   | 30.57    | 7.13   | 36.85  | 163    | 348     | P       | H       |
|                             | *                                                                                           | 2412      | 109.96     | -      | -          | 109.11   | 30.57    | 7.13   | 36.85  | 163    | 348     | A       | H       |
|                             |                                                                                             | 2388.78   | 52.84      | -21.16 | 74         | 52.1     | 30.5     | 7.1    | 36.86  | 302    | 342     | P       | V       |
|                             |                                                                                             | 2389.69   | 42.32      | -11.68 | 54         | 41.58    | 30.5     | 7.1    | 36.86  | 302    | 342     | A       | V       |
|                             | *                                                                                           | 2414      | 107.11     | -      | -          | 106.26   | 30.57    | 7.13   | 36.85  | 302    | 342     | P       | V       |
|                             | *                                                                                           | 2414      | 99.88      | -      | -          | 99.03    | 30.57    | 7.13   | 36.85  | 302    | 342     | A       | V       |
| 802.11b<br>CH 11<br>2462MHz | *                                                                                           | 2464      | 117.68     | -      | -          | 116.5    | 30.79    | 7.22   | 36.83  | 131    | 91      | P       | H       |
|                             | *                                                                                           | 2464      | 110.58     | -      | -          | 109.4    | 30.79    | 7.22   | 36.83  | 131    | 91      | A       | H       |
|                             |                                                                                             | 2483.74   | 59.4       | -14.6  | 74         | 58.11    | 30.86    | 7.25   | 36.82  | 131    | 91      | P       | H       |
|                             |                                                                                             | 2483.5    | 50.68      | -3.32  | 54         | 49.39    | 30.86    | 7.25   | 36.82  | 131    | 91      | A       | H       |
|                             | *                                                                                           | 2460      | 113.91     | -      | -          | 112.73   | 30.79    | 7.22   | 36.83  | 378    | 120     | P       | V       |
|                             | *                                                                                           | 2462      | 107.05     | -      | -          | 105.87   | 30.79    | 7.22   | 36.83  | 378    | 120     | A       | V       |
|                             |                                                                                             | 2483.68   | 54.99      | -19.01 | 74         | 53.7     | 30.86    | 7.25   | 36.82  | 378    | 120     | P       | V       |
|                             |                                                                                             | 2483.5    | 45.48      | -8.52  | 54         | 44.19    | 30.86    | 7.25   | 36.82  | 378    | 120     | A       | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 01<br>2412MHz |                                                                                             | 4830                 | 52.85               | -21.15                  | 74                          | 73.37                     | 34.61                         | 10.25                  | 65.38                      | 359                  | 141                     | P                       | H               |
|                             |                                                                                             | 4830                 | 45.27               | -8.73                   | 54                          | 65.79                     | 34.61                         | 10.25                  | 65.38                      | 359                  | 141                     | A                       | H               |
|                             |                                                                                             | 7230                 | 48.48               | -39.22                  | 87.70                       | 64.71                     | 36.71                         | 12.71                  | 65.65                      | 300                  | 0                       | P                       | H               |
|                             |                                                                                             | 9645                 | 55.78               | -31.92                  | 87.70                       | 70.02                     | 37.79                         | 14.94                  | 66.97                      | 300                  | 0                       | P                       | H               |
|                             |                                                                                             | 4830                 | 49.68               | -24.32                  | 74                          | 70.2                      | 34.61                         | 10.25                  | 65.38                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7230                 | 47.66               | -36.92                  | 84.58                       | 63.89                     | 36.71                         | 12.71                  | 65.65                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 9645                 | 57.83               | -26.75                  | 84.58                       | 72.07                     | 37.79                         | 14.94                  | 66.97                      | 100                  | 0                       | P                       | V               |
| 802.11b<br>CH 06<br>2437MHz |                                                                                             | 4875                 | 47.82               | -26.18                  | 74                          | 68.26                     | 34.69                         | 10.29                  | 65.42                      | 300                  | 0                       | P                       | H               |
|                             |                                                                                             | 7305                 | 45.81               | -28.19                  | 74                          | 62.32                     | 36.68                         | 12.72                  | 65.91                      | 300                  | 0                       | P                       | H               |
|                             |                                                                                             | 9750                 | 55.77               | -32.73                  | 88.50                       | 69.92                     | 37.91                         | 14.99                  | 67.05                      | 300                  | 0                       | P                       | H               |
|                             |                                                                                             | 4875                 | 49.27               | -24.73                  | 74                          | 69.71                     | 34.69                         | 10.29                  | 65.42                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7305                 | 45.82               | -28.18                  | 74                          | 62.33                     | 36.68                         | 12.72                  | 65.91                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 9750                 | 56.81               | -27.3                   | 84.11                       | 70.96                     | 37.91                         | 14.99                  | 67.05                      | 100                  | 0                       | P                       | V               |
| 802.11b<br>CH 11<br>2462MHz |                                                                                             | 4920                 | 48.24               | -25.76                  | 74                          | 68.58                     | 34.77                         | 10.34                  | 65.45                      | 300                  | 0                       | P                       | H               |
|                             |                                                                                             | 7380                 | 45.17               | -28.83                  | 74                          | 61.9                      | 36.65                         | 12.73                  | 66.11                      | 300                  | 0                       | P                       | H               |
|                             |                                                                                             | 9840                 | 54.07               | -35.01                  | 89.08                       | 68.14                     | 38.01                         | 15.03                  | 67.11                      | 300                  | 0                       | P                       | H               |
|                             |                                                                                             | 4920                 | 49.67               | -24.33                  | 74                          | 70.01                     | 34.77                         | 10.34                  | 65.45                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7380                 | 46.12               | -27.88                  | 74                          | 62.85                     | 36.65                         | 12.73                  | 66.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 9855                 | 56.73               | -19.82                  | 76.55                       | 70.78                     | 38.03                         | 15.04                  | 67.12                      | 100                  | 0                       | P                       | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11g (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11g<br/>CH 01<br/>2412MHz</b> |                                                                                             | 2389.95              | 68.61               | -5.39                   | 74                          | 67.87                     | 30.5                          | 7.1                    | 36.86                      | 166                  | 2                       | P                       | H               |
|                                      |                                                                                             | 2389.95              | 52.28               | -1.72                   | 54                          | 51.54                     | 30.5                          | 7.1                    | 36.86                      | 166                  | 2                       | A                       | H               |
|                                      | *                                                                                           | 2414                 | 110.43              | -                       | -                           | 109.58                    | 30.57                         | 7.13                   | 36.85                      | 166                  | 2                       | P                       | H               |
|                                      | *                                                                                           | 2412                 | 102.2               | -                       | -                           | 101.35                    | 30.57                         | 7.13                   | 36.85                      | 166                  | 2                       | A                       | H               |
|                                      |                                                                                             | 2389.95              | 62.18               | -11.82                  | 74                          | 61.44                     | 30.5                          | 7.1                    | 36.86                      | 354                  | 42                      | P                       | V               |
|                                      |                                                                                             | 2389.95              | 46.34               | -7.66                   | 54                          | 45.6                      | 30.5                          | 7.1                    | 36.86                      | 354                  | 42                      | A                       | V               |
|                                      | *                                                                                           | 2412                 | 105.46              | -                       | -                           | 104.61                    | 30.57                         | 7.13                   | 36.85                      | 354                  | 42                      | P                       | V               |
|                                      | *                                                                                           | 2412                 | 97.41               | -                       | -                           | 96.56                     | 30.57                         | 7.13                   | 36.85                      | 354                  | 42                      | A                       | V               |
| <b>802.11g<br/>CH 02<br/>2417MHz</b> |                                                                                             | 2389.56              | 66.79               | -7.21                   | 74                          | 66.05                     | 30.5                          | 7.1                    | 36.86                      | 361                  | 0                       | P                       | H               |
|                                      |                                                                                             | 2389.95              | 51.99               | -2.01                   | 54                          | 51.25                     | 30.5                          | 7.1                    | 36.86                      | 361                  | 0                       | A                       | H               |
|                                      |                                                                                             | 2412                 | 111.58              | -                       | -                           | 110.73                    | 30.57                         | 7.13                   | 36.85                      | 361                  | 0                       | P                       | H               |
|                                      |                                                                                             | 2412                 | 103.8               | -                       | -                           | 102.95                    | 30.57                         | 7.13                   | 36.85                      | 361                  | 0                       | A                       | H               |
|                                      |                                                                                             | 2389.82              | 62.18               | -11.82                  | 74                          | 61.44                     | 30.5                          | 7.1                    | 36.86                      | 390                  | 0                       | P                       | V               |
|                                      |                                                                                             | 2389.95              | 46.96               | -7.04                   | 54                          | 46.22                     | 30.5                          | 7.1                    | 36.86                      | 390                  | 0                       | A                       | V               |
|                                      |                                                                                             | 2412                 | 108.88              | -                       | -                           | 108.03                    | 30.57                         | 7.13                   | 36.85                      | 390                  | 0                       | P                       | V               |
|                                      |                                                                                             | 2412                 | 101.28              | -                       | -                           | 100.43                    | 30.57                         | 7.13                   | 36.85                      | 390                  | 0                       | A                       | V               |
| <b>802.11g<br/>CH 11<br/>2462MHz</b> |                                                                                             | 2483.62              | 71.21               | -2.79                   | 74                          | 69.92                     | 30.86                         | 7.25                   | 36.82                      | 132                  | 15                      | P                       | H               |
|                                      |                                                                                             | 2483.5               | 52.41               | -1.59                   | 54                          | 51.12                     | 30.86                         | 7.25                   | 36.82                      | 132                  | 15                      | A                       | H               |
|                                      | *                                                                                           | 2462                 | 110.56              | -                       | -                           | 109.38                    | 30.79                         | 7.22                   | 36.83                      | 132                  | 15                      | P                       | H               |
|                                      | *                                                                                           | 2460                 | 102.84              | -                       | -                           | 101.66                    | 30.79                         | 7.22                   | 36.83                      | 132                  | 15                      | A                       | H               |
|                                      |                                                                                             | 2483.5               | 62.3                | -11.7                   | 74                          | 61.01                     | 30.86                         | 7.25                   | 36.82                      | 270                  | 15                      | P                       | V               |
|                                      |                                                                                             | 2483.5               | 45.12               | -8.88                   | 54                          | 43.83                     | 30.86                         | 7.25                   | 36.82                      | 270                  | 15                      | A                       | V               |
|                                      | *                                                                                           | 2456                 | 105.01              | -                       | -                           | 103.83                    | 30.79                         | 7.22                   | 36.83                      | 270                  | 15                      | P                       | V               |
|                                      | *                                                                                           | 2456                 | 96.94               | -                       | -                           | 95.76                     | 30.79                         | 7.22                   | 36.83                      | 270                  | 15                      | A                       | V               |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11g (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11g<br/>CH 01<br/>2412MHz</b> |                                                                                             | 4830                 | 48.48               | -25.52                  | 74                          | 69                        | 34.61                         | 10.25                  | 65.38                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 7230                 | 50.04               | -27.99                  | 78.03                       | 66.27                     | 36.71                         | 12.71                  | 65.65                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 9660                 | 55.39               | -22.64                  | 78.03                       | 69.62                     | 37.79                         | 14.95                  | 66.97                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 4830                 | 47.38               | -26.62                  | 74                          | 67.9                      | 34.61                         | 10.25                  | 65.38                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 7245                 | 50.79               | -17.02                  | 67.81                       | 67.07                     | 36.7                          | 12.72                  | 65.7                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 9645                 | 57.11               | -10.7                   | 67.81                       | 71.35                     | 37.79                         | 14.94                  | 66.97                      | 100                  | 0                       | P                       | V               |
| <b>802.11g<br/>CH 02<br/>2417MHz</b> |                                                                                             | 4834                 | 46.88               | -27.12                  | 74                          | 67.39                     | 34.63                         | 10.25                  | 65.39                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 7251                 | 48.47               | -25.53                  | 74                          | 64.81                     | 36.7                          | 12.72                  | 65.76                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 9675                 | 52.97               | -25.03                  | 78                          | 67.18                     | 37.81                         | 14.96                  | 66.98                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 4834                 | 45.81               | -28.19                  | 74                          | 66.32                     | 34.63                         | 10.25                  | 65.39                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 7251                 | 47                  | -27                     | 74                          | 63.34                     | 36.7                          | 12.72                  | 65.76                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 9675                 | 54.89               | -16.21                  | 71.10                       | 69.1                      | 37.81                         | 14.96                  | 66.98                      | 100                  | 0                       | P                       | V               |
| <b>802.11g<br/>CH 06<br/>2437MHz</b> |                                                                                             | 4875                 | 49.05               | -24.95                  | 74                          | 69.49                     | 34.69                         | 10.29                  | 65.42                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 7305                 | 53.9                | -20.1                   | 74                          | 70.41                     | 36.68                         | 12.72                  | 65.91                      | 110                  | 250                     | P                       | H               |
|                                      |                                                                                             | 7305                 | 42.98               | -11.02                  | 54                          | 59.49                     | 36.68                         | 12.72                  | 65.91                      | 110                  | 250                     | A                       | H               |
|                                      |                                                                                             | 9750                 | 59.51               | -23.09                  | 82.60                       | 73.66                     | 37.91                         | 14.99                  | 67.05                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 4875                 | 48.2                | -25.8                   | 74                          | 68.64                     | 34.69                         | 10.29                  | 65.42                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 7305                 | 51.61               | -22.39                  | 74                          | 68.12                     | 36.68                         | 12.72                  | 65.91                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 9750                 | 59.49               | -10.8                   | 70.29                       | 73.64                     | 37.91                         | 14.99                  | 67.05                      | 100                  | 0                       | P                       | V               |
| <b>802.11g<br/>CH 11<br/>2462MHz</b> |                                                                                             | 4920                 | 47.43               | -26.57                  | 74                          | 67.77                     | 34.77                         | 10.34                  | 65.45                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 7380                 | 47.65               | -26.35                  | 74                          | 64.38                     | 36.65                         | 12.73                  | 66.11                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 9855                 | 56.9                | -24.85                  | 81.75                       | 70.95                     | 38.03                         | 15.04                  | 67.12                      | 300                  | 0                       | P                       | H               |
|                                      |                                                                                             | 4920                 | 48.8                | -25.2                   | 74                          | 69.14                     | 34.77                         | 10.34                  | 65.45                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 7380                 | 49.33               | -24.67                  | 74                          | 66.06                     | 36.65                         | 12.73                  | 66.11                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 9855                 | 57.49               | -10.2                   | 67.69                       | 71.54                     | 38.03                         | 15.04                  | 67.12                      | 100                  | 0                       | P                       | V               |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 01<br>2412MHz |                                                                                             | 2389.69              | 67.36               | -6.64                   | 74                          | 66.62                     | 30.5                          | 7.1                    | 36.86                      | 162                  | 347                     | P                       | H               |
|                                     |                                                                                             | 2389.95              | 52.33               | -1.67                   | 54                          | 51.59                     | 30.5                          | 7.1                    | 36.86                      | 162                  | 347                     | A                       | H               |
|                                     | *                                                                                           | 2410                 | 110.35              | -                       | -                           | 109.5                     | 30.57                         | 7.13                   | 36.85                      | 162                  | 347                     | P                       | H               |
|                                     | *                                                                                           | 2406                 | 102.19              | -                       | -                           | 101.34                    | 30.57                         | 7.13                   | 36.85                      | 162                  | 347                     | A                       | H               |
|                                     |                                                                                             | 2389.04              | 58.56               | -15.44                  | 74                          | 57.82                     | 30.5                          | 7.1                    | 36.86                      | 251                  | 323                     | P                       | V               |
|                                     |                                                                                             | 2389.95              | 44.19               | -9.81                   | 54                          | 43.45                     | 30.5                          | 7.1                    | 36.86                      | 251                  | 323                     | A                       | V               |
|                                     | *                                                                                           | 2418                 | 103.17              | -                       | -                           | 102.29                    | 30.57                         | 7.16                   | 36.85                      | 251                  | 323                     | P                       | V               |
|                                     | *                                                                                           | 2418                 | 95.05               | -                       | -                           | 94.17                     | 30.57                         | 7.16                   | 36.85                      | 251                  | 323                     | A                       | V               |
| 802.11n<br>HT20<br>CH 02<br>2417MHz |                                                                                             | 2387.48              | 66.99               | -7.01                   | 74                          | 66.25                     | 30.5                          | 7.1                    | 36.86                      | 360                  | 0                       | P                       | H               |
|                                     |                                                                                             | 2389.95              | 53                  | -1                      | 54                          | 52.26                     | 30.5                          | 7.1                    | 36.86                      | 360                  | 0                       | A                       | H               |
|                                     |                                                                                             | 2412                 | 111.24              | -                       | -                           | 110.39                    | 30.57                         | 7.13                   | 36.85                      | 360                  | 0                       | P                       | H               |
|                                     |                                                                                             | 2412                 | 103.19              | -                       | -                           | 102.34                    | 30.57                         | 7.13                   | 36.85                      | 360                  | 0                       | A                       | H               |
|                                     |                                                                                             | 2389.95              | 61.32               | -12.68                  | 74                          | 60.58                     | 30.5                          | 7.1                    | 36.86                      | 390                  | 66                      | P                       | V               |
|                                     |                                                                                             | 2389.95              | 47.76               | -6.24                   | 54                          | 47.02                     | 30.5                          | 7.1                    | 36.86                      | 390                  | 66                      | A                       | V               |
|                                     |                                                                                             | 2412                 | 108.95              | -                       | -                           | 108.1                     | 30.57                         | 7.13                   | 36.85                      | 390                  | 66                      | P                       | V               |
|                                     |                                                                                             | 2412                 | 101.26              | -                       | -                           | 100.41                    | 30.57                         | 7.13                   | 36.85                      | 390                  | 66                      | A                       | V               |
| 802.11n<br>HT20<br>CH 11<br>2462MHz |                                                                                             | 2483.5               | 67.19               | -6.81                   | 74                          | 65.9                      | 30.86                         | 7.25                   | 36.82                      | 131                  | 360                     | P                       | H               |
|                                     |                                                                                             | 2483.5               | 52.1                | -1.9                    | 54                          | 50.81                     | 30.86                         | 7.25                   | 36.82                      | 131                  | 360                     | A                       | H               |
|                                     | *                                                                                           | 2462                 | 110.07              | -                       | -                           | 108.89                    | 30.79                         | 7.22                   | 36.83                      | 131                  | 360                     | P                       | H               |
|                                     | *                                                                                           | 2460                 | 101.99              | -                       | -                           | 100.81                    | 30.79                         | 7.22                   | 36.83                      | 131                  | 360                     | A                       | H               |
|                                     |                                                                                             | 2483.74              | 60.44               | -13.56                  | 74                          | 59.15                     | 30.86                         | 7.25                   | 36.82                      | 268                  | 16                      | P                       | V               |
|                                     |                                                                                             | 2483.5               | 45.29               | -8.71                   | 54                          | 44                        | 30.86                         | 7.25                   | 36.82                      | 268                  | 16                      | A                       | V               |
|                                     | *                                                                                           | 2456                 | 103.68              | -                       | -                           | 102.5                     | 30.79                         | 7.22                   | 36.83                      | 268                  | 16                      | P                       | V               |
|                                     | *                                                                                           | 2456                 | 95.95               | -                       | -                           | 94.77                     | 30.79                         | 7.22                   | 36.83                      | 268                  | 16                      | A                       | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 01<br>2412MHz |                                                                                             | 4830                 | 44.99               | -29.01                  | 74                          | 65.51                     | 34.61                         | 10.25                  | 65.38                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 4830                 | 43.3                | -30.7                   | 74                          | 63.82                     | 34.61                         | 10.25                  | 65.38                      | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT20<br>CH 02<br>2417MHz |                                                                                             | 4834                 | 45.99               | -28.01                  | 74                          | 66.5                      | 34.63                         | 10.25                  | 65.39                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7251                 | 47.38               | -26.62                  | 74                          | 63.72                     | 36.7                          | 12.72                  | 65.76                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 9660                 | 51.39               | -28.6                   | 79.99                       | 65.62                     | 37.79                         | 14.95                  | 66.97                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 4834                 | 45.84               | -28.16                  | 74                          | 66.35                     | 34.63                         | 10.25                  | 65.39                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7251                 | 45.97               | -28.03                  | 74                          | 62.31                     | 36.7                          | 12.72                  | 65.76                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 9675                 | 53.45               | -19.17                  | 72.62                       | 67.66                     | 37.81                         | 14.96                  | 66.98                      | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |                                                                                             | 4875                 | 49.61               | -24.39                  | 74                          | 70.05                     | 34.69                         | 10.29                  | 65.42                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7305                 | 51.6                | -22.4                   | 74                          | 68.11                     | 36.68                         | 12.72                  | 65.91                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 9750                 | 57.42               | -23.02                  | 80.44                       | 71.57                     | 37.91                         | 14.99                  | 67.05                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 4875                 | 47.01               | -26.99                  | 74                          | 67.45                     | 34.69                         | 10.29                  | 65.42                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7305                 | 53.33               | -20.67                  | 74                          | 69.84                     | 36.68                         | 12.72                  | 65.91                      | 314                  | 214                     | P                       | V               |
|                                     |                                                                                             | 7305                 | 42.71               | -11.29                  | 54                          | 59.22                     | 36.68                         | 12.72                  | 65.91                      | 314                  | 214                     | A                       | V               |
| 802.11n<br>HT20<br>CH 11<br>2462MHz |                                                                                             | 4920                 | 46.89               | -27.11                  | 74                          | 67.23                     | 34.77                         | 10.34                  | 65.45                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7380                 | 47.85               | -26.15                  | 74                          | 64.58                     | 36.65                         | 12.73                  | 66.11                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 9855                 | 55.14               | -22.68                  | 77.82                       | 69.19                     | 38.03                         | 15.04                  | 67.12                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 4920                 | 46.96               | -27.04                  | 74                          | 67.3                      | 34.77                         | 10.34                  | 65.45                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7380                 | 49.28               | -24.72                  | 74                          | 66.01                     | 36.65                         | 12.73                  | 66.11                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 9840                 | 56.61               | -11.6                   | 68.21                       | 70.68                     | 38.01                         | 15.03                  | 67.11                      | 100                  | 0                       | P                       | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 03<br>2422MHz |      | 2389.95              | 68.5                | -5.5                    | 74                          | 67.76                     | 30.5                          | 7.1                    | 36.86                      | 142                  | 0                       | P                       | H               |
|                                     |      | 2389.95              | 52.39               | -1.61                   | 54                          | 51.65                     | 30.5                          | 7.1                    | 36.86                      | 142                  | 0                       | A                       | H               |
|                                     | *    | 2414                 | 107.03              | -                       | -                           | 106.18                    | 30.57                         | 7.13                   | 36.85                      | 142                  | 0                       | P                       | H               |
|                                     | *    | 2414                 | 98.77               | -                       | -                           | 97.92                     | 30.57                         | 7.13                   | 36.85                      | 142                  | 0                       | A                       | H               |
|                                     |      | 2485.6               | 54.71               | -19.29                  | 74                          | 53.42                     | 30.86                         | 7.25                   | 36.82                      | 142                  | 0                       | P                       | H               |
|                                     |      | 2483.5               | 42.59               | -11.41                  | 54                          | 41.3                      | 30.86                         | 7.25                   | 36.82                      | 142                  | 0                       | A                       | H               |
|                                     |      | 2389.95              | 58.41               | -15.59                  | 74                          | 57.67                     | 30.5                          | 7.1                    | 36.86                      | 242                  | 31                      | P                       | V               |
|                                     |      | 2389.95              | 42.87               | -11.13                  | 54                          | 42.13                     | 30.5                          | 7.1                    | 36.86                      | 242                  | 31                      | A                       | V               |
|                                     | *    | 2426                 | 101.8               | -                       | -                           | 100.85                    | 30.64                         | 7.16                   | 36.85                      | 242                  | 31                      | P                       | V               |
|                                     | *    | 2424                 | 93.45               | -                       | -                           | 92.5                      | 30.64                         | 7.16                   | 36.85                      | 242                  | 31                      | A                       | V               |
|                                     |      | 2487.1               | 49.06               | -24.94                  | 74                          | 47.77                     | 30.86                         | 7.25                   | 36.82                      | 242                  | 31                      | P                       | V               |
|                                     |      | 2483.68              | 37.92               | -16.08                  | 54                          | 36.63                     | 30.86                         | 7.25                   | 36.82                      | 242                  | 31                      | A                       | V               |
| 802.11n<br>HT40<br>CH 04<br>2427MHz |      | 2389.95              | 69.36               | -4.64                   | 74                          | 68.62                     | 30.5                          | 7.1                    | 36.86                      | 277                  | 4                       | P                       | H               |
|                                     |      | 2389.95              | 52.06               | -1.94                   | 54                          | 51.32                     | 30.5                          | 7.1                    | 36.86                      | 277                  | 4                       | A                       | H               |
|                                     | *    | 2430                 | 108.51              | -                       | -                           | 107.56                    | 30.64                         | 7.16                   | 36.85                      | 277                  | 4                       | P                       | H               |
|                                     | *    | 2428                 | 100.32              | -                       | -                           | 99.37                     | 30.64                         | 7.16                   | 36.85                      | 277                  | 4                       | A                       | H               |
|                                     |      | 2483.68              | 53.35               | -20.65                  | 74                          | 52.06                     | 30.86                         | 7.25                   | 36.82                      | 277                  | 4                       | P                       | H               |
|                                     |      | 2483.5               | 42.57               | -11.43                  | 54                          | 41.28                     | 30.86                         | 7.25                   | 36.82                      | 277                  | 4                       | A                       | H               |
|                                     |      | 2389.95              | 65.74               | -8.26                   | 74                          | 65                        | 30.5                          | 7.1                    | 36.86                      | 392                  | 48                      | P                       | V               |
|                                     |      | 2389.95              | 48.33               | -5.67                   | 54                          | 47.59                     | 30.5                          | 7.1                    | 36.86                      | 392                  | 48                      | A                       | V               |
|                                     | *    | 2430                 | 106                 | -                       | -                           | 105.05                    | 30.64                         | 7.16                   | 36.85                      | 392                  | 48                      | P                       | V               |
|                                     | *    | 2430                 | 97.34               | -                       | -                           | 96.39                     | 30.64                         | 7.16                   | 36.85                      | 392                  | 48                      | A                       | V               |
|                                     |      | 2484.28              | 50.61               | -23.39                  | 74                          | 49.32                     | 30.86                         | 7.25                   | 36.82                      | 392                  | 48                      | P                       | V               |
|                                     |      | 2483.5               | 40.48               | -13.52                  | 54                          | 39.19                     | 30.86                         | 7.25                   | 36.82                      | 392                  | 48                      | A                       | V               |



|                                     |                                                                                             |         |        |        |    |        |       |      |       |     |    |   |   |
|-------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|----|---|---|
| 802.11n<br>HT40<br>CH 06<br>2437MHz |                                                                                             | 2389.95 | 66.5   | -7.5   | 74 | 65.76  | 30.5  | 7.1  | 36.86 | 113 | 2  | P | H |
|                                     |                                                                                             | 2389.95 | 52.22  | -1.78  | 54 | 51.48  | 30.5  | 7.1  | 36.86 | 113 | 2  | A | H |
|                                     | *                                                                                           | 2440    | 108.55 | -      | -  | 107.49 | 30.71 | 7.19 | 36.84 | 113 | 2  | P | H |
|                                     | *                                                                                           | 2438    | 100.52 | -      | -  | 99.46  | 30.71 | 7.19 | 36.84 | 113 | 2  | A | H |
|                                     |                                                                                             | 2483.56 | 62.03  | -11.97 | 74 | 60.74  | 30.86 | 7.25 | 36.82 | 113 | 2  | P | H |
|                                     |                                                                                             | 2483.5  | 48.21  | -5.79  | 54 | 46.92  | 30.86 | 7.25 | 36.82 | 113 | 2  | A | H |
|                                     |                                                                                             | 2389.95 | 55.52  | -18.48 | 74 | 54.78  | 30.5  | 7.1  | 36.86 | 393 | 62 | P | V |
|                                     |                                                                                             | 2389.95 | 42.34  | -11.66 | 54 | 41.6   | 30.5  | 7.1  | 36.86 | 393 | 62 | A | V |
|                                     | *                                                                                           | 2434    | 103.58 | -      | -  | 102.63 | 30.64 | 7.16 | 36.85 | 393 | 62 | P | V |
|                                     | *                                                                                           | 2428    | 95.56  | -      | -  | 94.61  | 30.64 | 7.16 | 36.85 | 393 | 62 | A | V |
|                                     |                                                                                             | 2483.62 | 51.49  | -22.51 | 74 | 50.2   | 30.86 | 7.25 | 36.82 | 393 | 62 | P | V |
|                                     |                                                                                             | 2483.5  | 40.06  | -13.94 | 54 | 38.77  | 30.86 | 7.25 | 36.82 | 393 | 62 | A | V |
| 802.11n<br>HT40<br>CH 09<br>2452MHz |                                                                                             | 2385.01 | 58.99  | -15.01 | 74 | 58.28  | 30.48 | 7.1  | 36.87 | 111 | 4  | P | H |
|                                     |                                                                                             | 2389.69 | 47.76  | -6.24  | 54 | 47.02  | 30.5  | 7.1  | 36.86 | 111 | 4  | A | H |
|                                     | *                                                                                           | 2438    | 106.96 | -      | -  | 105.9  | 30.71 | 7.19 | 36.84 | 111 | 4  | P | H |
|                                     | *                                                                                           | 2442    | 99.15  | -      | -  | 98.09  | 30.71 | 7.19 | 36.84 | 111 | 4  | A | H |
|                                     |                                                                                             | 2483.5  | 68.88  | -5.12  | 74 | 67.59  | 30.86 | 7.25 | 36.82 | 111 | 4  | P | H |
|                                     |                                                                                             | 2483.5  | 52.4   | -1.6   | 54 | 51.11  | 30.86 | 7.25 | 36.82 | 111 | 4  | A | H |
|                                     |                                                                                             | 2333.14 | 50.87  | -23.13 | 74 | 50.33  | 30.43 | 7.01 | 36.9  | 387 | 40 | P | V |
|                                     |                                                                                             | 2360.18 | 39.52  | -14.48 | 54 | 38.87  | 30.46 | 7.07 | 36.88 | 387 | 40 | A | V |
|                                     | *                                                                                           | 2456    | 103.65 | -      | -  | 102.47 | 30.79 | 7.22 | 36.83 | 387 | 40 | P | V |
|                                     | *                                                                                           | 2454    | 95.05  | -      | -  | 93.87  | 30.79 | 7.22 | 36.83 | 387 | 40 | A | V |
|                                     |                                                                                             | 2483.5  | 63.18  | -10.82 | 74 | 61.89  | 30.86 | 7.25 | 36.82 | 387 | 40 | P | V |
|                                     |                                                                                             | 2483.5  | 46.45  | -7.55  | 54 | 45.16  | 30.86 | 7.25 | 36.82 | 387 | 40 | A | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |    |   |   |





**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11n HT40 (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 03<br>2422MHz |                                                                                             | 4845                 | 44.14               | -29.86                  | 74                          | 64.65                     | 34.63                         | 10.25                  | 65.39                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7266                 | 45.25               | -28.75                  | 74                          | 61.65                     | 36.69                         | 12.72                  | 65.81                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 4844                 | 43.6                | -30.4                   | 74                          | 64.11                     | 34.63                         | 10.25                  | 65.39                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7260                 | 45.13               | -28.87                  | 74                          | 61.47                     | 36.7                          | 12.72                  | 65.76                      | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT40<br>CH 04<br>2427MHz |                                                                                             | 4854                 | 42.77               | -31.23                  | 74                          | 63.24                     | 34.66                         | 10.27                  | 65.4                       | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7275                 | 44.63               | -29.37                  | 74                          | 61.03                     | 36.69                         | 12.72                  | 65.81                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 4860                 | 42.79               | -31.21                  | 74                          | 63.26                     | 34.66                         | 10.27                  | 65.4                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7281                 | 43.91               | -30.09                  | 74                          | 60.31                     | 36.69                         | 12.72                  | 65.81                      | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |                                                                                             | 4875                 | 45.99               | -28.01                  | 74                          | 66.43                     | 34.69                         | 10.29                  | 65.42                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7305                 | 49.33               | -24.67                  | 74                          | 65.84                     | 36.68                         | 12.72                  | 65.91                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 9735                 | 52.83               | -25.02                  | 77.85                       | 66.99                     | 37.89                         | 14.98                  | 67.03                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 4875                 | 44.42               | -29.58                  | 74                          | 64.86                     | 34.69                         | 10.29                  | 65.42                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7305                 | 47.81               | -26.19                  | 74                          | 64.32                     | 36.68                         | 12.72                  | 65.91                      | 100                  | 0                       | P                       | V               |
| 802.11n<br>HT40<br>CH 09<br>2452MHz |                                                                                             | 9735                 | 53.42               | -13.02                  | 66.44                       | 67.58                     | 37.89                         | 14.98                  | 67.03                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 4905                 | 44.61               | -29.39                  | 74                          | 64.97                     | 34.74                         | 10.34                  | 65.44                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7356                 | 45.65               | -28.35                  | 74                          | 62.32                     | 36.66                         | 12.73                  | 66.06                      | 300                  | 0                       | P                       | H               |
|                                     |                                                                                             | 4904                 | 43.73               | -30.27                  | 74                          | 64.11                     | 34.74                         | 10.32                  | 65.44                      | 100                  | 0                       | P                       | V               |
| 2452MHz                             |                                                                                             | 7350                 | 45.43               | -28.57                  | 74                          | 62.11                     | 36.66                         | 12.72                  | 66.06                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                        |                            |                      |                         |                         |                 |



## Emission below 1GHz

## 2.4GHz WIFI 802.11n HT20 (LF)

| WIFI Ant.                       | Note                                                                       | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|---------------------------------|----------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
| 1                               |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 2.4GHz<br>802.11n<br>HT20<br>LF |                                                                            | 30        | 20.31      | -19.69     | 40         | 26.8       | 25.5           | 0.71      | 32.7          | -       | -         | P         | H     |
|                                 |                                                                            | 159.01    | 27.89      | -15.61     | 43.5       | 41.53      | 17.29          | 1.92      | 32.85         | -       | -         | P         | H     |
|                                 |                                                                            | 216.24    | 34.62      | -11.38     | 46         | 48.17      | 17.31          | 2.24      | 33.1          | -       | -         | P         | H     |
|                                 |                                                                            | 263.77    | 29.36      | -16.64     | 46         | 40.31      | 19.62          | 2.48      | 33.05         | -       | -         | P         | H     |
|                                 |                                                                            | 408.3     | 31.85      | -14.15     | 46         | 38.69      | 22.86          | 3.08      | 32.78         | -       | -         | P         | H     |
|                                 |                                                                            | 531.49    | 34.09      | -11.91     | 46         | 37.86      | 25.38          | 3.52      | 32.67         | -       | -         | P         | H     |
|                                 |                                                                            | 167.74    | 23.2       | -20.3      | 43.5       | 37.06      | 17.08          | 1.97      | 32.91         | -       | -         | P         | V     |
|                                 |                                                                            | 236.61    | 29.93      | -16.07     | 46         | 42.11      | 18.57          | 2.35      | 33.1          | -       | -         | P         | V     |
|                                 |                                                                            | 254.07    | 36.1       | -9.9       | 46         | 47.28      | 19.46          | 2.44      | 33.08         | -       | -         | P         | V     |
|                                 |                                                                            | 267.65    | 31.1       | -14.9      | 46         | 41.95      | 19.68          | 2.5       | 33.03         | -       | -         | P         | V     |
|                                 |                                                                            | 324.88    | 31.53      | -14.47     | 46         | 40.89      | 20.8           | 2.74      | 32.9          | -       | -         | P         | V     |
|                                 |                                                                            | 640.13    | 33.16      | -12.84     | 46         | 36.14      | 25.82          | 3.86      | 32.66         | -       | -         | P         | V     |
| Remark                          | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |            |            |            |                |           |               |         |           |           |       |

## Note symbol

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |



A calculation example for radiated spurious emission is shown as below:

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**



## **Appendix D. Radiated Spurious Emission Plots**

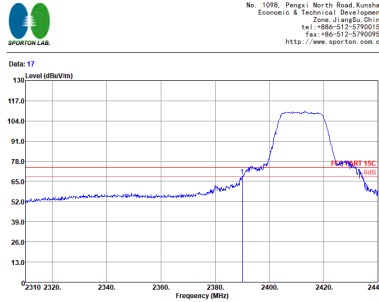
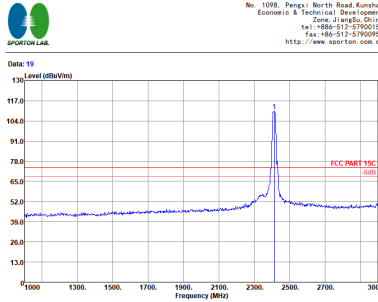
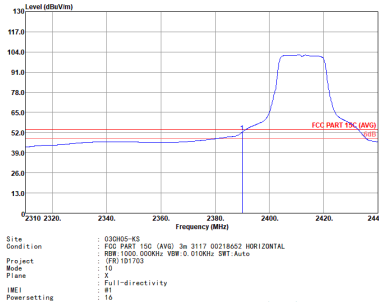
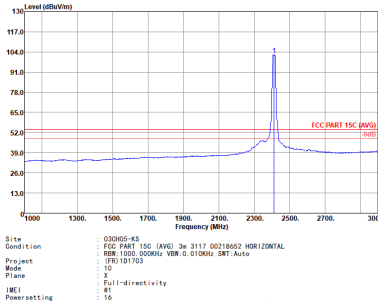
### **Note symbol**

|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

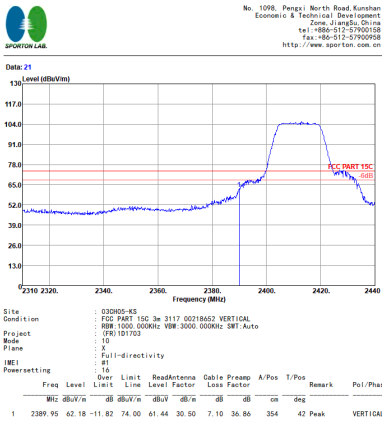
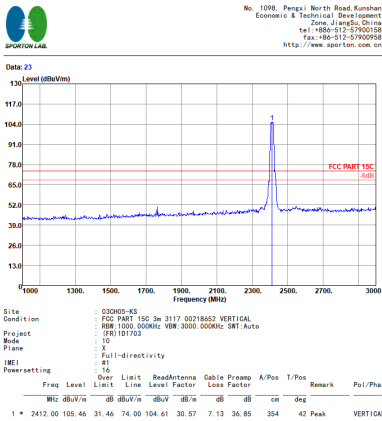
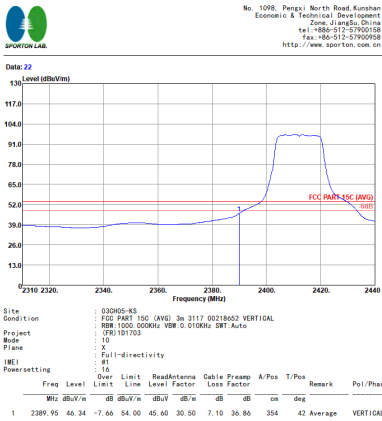
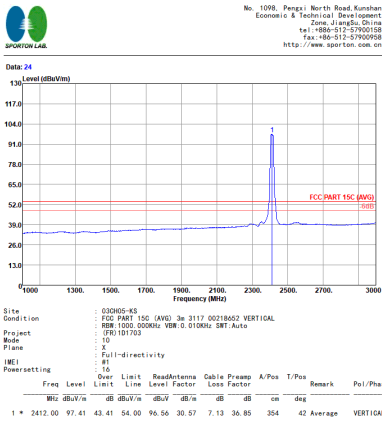


## 2.4GHz 2400~2483.5MHz

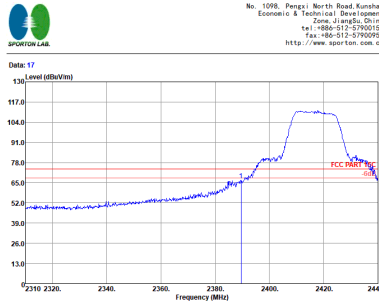
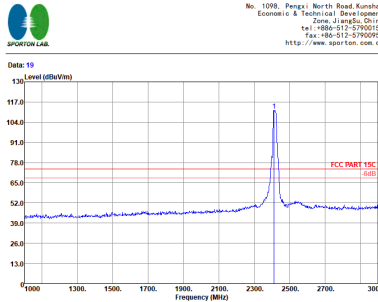
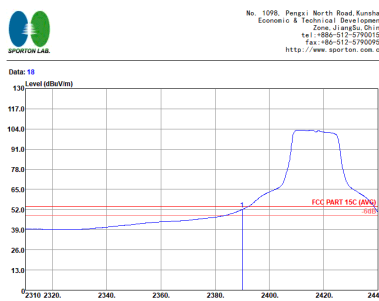
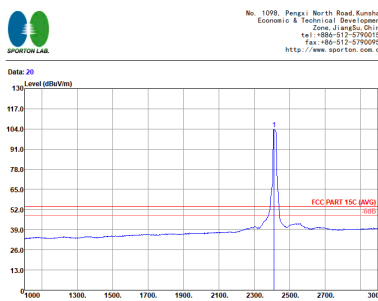
## WIFI 802.11g (Band Edge @ 3m)

| WIFI |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.4GHz 2400~2483.5MHz Band Edge @ 3m |        |             |              |              |              |        |          |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------|-------------|--------------|--------------|--------------|--------|----------|-----------|------------|-----|--------|----|--------|--------|----|----|-----|-----|--|---|---------|-------|-------|-------|-------|-------|------|-------|-----|--------|------------|------|-------|------|-------|-------------|--------------|-------|-------|--------|----------|-----|--------|----|--------|--------|----|----|-----|-----|--|---|---------|--------|-------|-------|--------|-------|------|-------|-----|--------|------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|-------|-------------|--------------|-------|-------|--------|----------|-----|--------|----|--------|--------|----|----|-----|-----|--|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----------|------------|------|-------|------|-------|-------------|--------------|-------|-------|--------|----------|-----|--------|----|--------|--------|----|----|-----|-----|--|---|---------|--------|-------|-------|--------|-------|------|-------|-----|-----------|------------|
| ANT  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 802.11g CH01 2412MHz                 |        |             |              |              |              |        |          |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Fundamental                          |        |             |              |              |              |        |          |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| Peak | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030605-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000.000MHz VSW.3000.000MHz SRT.Auto<br/>Bode : (FR) 101703<br/>Plane : X<br/>Full-directivity : X<br/>IMEI : #1<br/>Powersetting : 10</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>deg</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.95</td><td>68.61</td><td>-5.39</td><td>74.00</td><td>67.87</td><td>30.50</td><td>7.10</td><td>36.86</td><td>166</td><td>2 Peak</td><td>HORIZONTAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030605-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000.000MHz VSW.3000.000MHz SRT.Auto<br/>Bode : (FR) 101703<br/>Plane : X<br/>Full-directivity : X<br/>IMEI : #1<br/>Powersetting : 10</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>deg</th><th>deg</th><th></th></tr><tr><td>1</td><td>2412.00</td><td>110.43</td><td>36.43</td><td>74.00</td><td>109.58</td><td>30.57</td><td>7.13</td><td>36.85</td><td>166</td><td>2 Peak</td><td>HORIZONTAL</td></tr></table></div></div> | Freq                                 | Level  | Over        | Limit        | ReadAntenna  | Cable Preamp | A/Pos  | T/Pos    | Remark    | Pol/Phas   | MHz | dBm/Vm | dB | dBm/Vm | dBm/Vm | dB | dB | deg | deg |  | 1 | 2389.95 | 68.61 | -5.39 | 74.00 | 67.87 | 30.50 | 7.10 | 36.86 | 166 | 2 Peak | HORIZONTAL | Freq | Level | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/Vm | dB | dBm/Vm | dBm/Vm | dB | dB | deg | deg |  | 1 | 2412.00 | 110.43 | 36.43 | 74.00 | 109.58 | 30.57 | 7.13 | 36.85 | 166 | 2 Peak | HORIZONTAL | Avg. | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030605-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000.000MHz VSW.0.01000MHz SRT.Auto<br/>Bode : (FR) 101703<br/>Plane : X<br/>Full-directivity : X<br/>IMEI : #1<br/>Powersetting : 10</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>deg</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.95</td><td>52.28</td><td>-1.72</td><td>54.00</td><td>51.54</td><td>30.50</td><td>7.10</td><td>36.86</td><td>166</td><td>2 Average</td><td>HORIZONTAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030605-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000.000MHz VSW.0.01000MHz SRT.Auto<br/>Bode : (FR) 101703<br/>Plane : X<br/>Full-directivity : X<br/>IMEI : #1<br/>Powersetting : 10</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>deg</th><th>deg</th><th></th></tr><tr><td>1</td><td>2412.00</td><td>102.20</td><td>48.20</td><td>54.00</td><td>101.35</td><td>30.57</td><td>7.13</td><td>36.85</td><td>166</td><td>2 Average</td><td>HORIZONTAL</td></tr></table></div></div> | Freq | Level | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/Vm | dB | dBm/Vm | dBm/Vm | dB | dB | deg | deg |  | 1 | 2389.95 | 52.28 | -1.72 | 54.00 | 51.54 | 30.50 | 7.10 | 36.86 | 166 | 2 Average | HORIZONTAL | Freq | Level | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/Vm | dB | dBm/Vm | dBm/Vm | dB | dB | deg | deg |  | 1 | 2412.00 | 102.20 | 48.20 | 54.00 | 101.35 | 30.57 | 7.13 | 36.85 | 166 | 2 Average | HORIZONTAL |
|      | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Level                                | Over   | Limit       | ReadAntenna  | Cable Preamp | A/Pos        | T/Pos  | Remark   | Pol/Phas  |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| MHz  | dBm/Vm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dB                                   | dBm/Vm | dBm/Vm      | dB           | dB           | deg          | deg    |          |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| 1    | 2389.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 68.61                                | -5.39  | 74.00       | 67.87        | 30.50        | 7.10         | 36.86  | 166      | 2 Peak    | HORIZONTAL |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Over                                 | Limit  | ReadAntenna | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| MHz  | dBm/Vm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dB                                   | dBm/Vm | dBm/Vm      | dB           | dB           | deg          | deg    |          |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| 1    | 2412.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 110.43                               | 36.43  | 74.00       | 109.58       | 30.57        | 7.13         | 36.85  | 166      | 2 Peak    | HORIZONTAL |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Over                                 | Limit  | ReadAntenna | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| MHz  | dBm/Vm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dB                                   | dBm/Vm | dBm/Vm      | dB           | dB           | deg          | deg    |          |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| 1    | 2389.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 52.28                                | -1.72  | 54.00       | 51.54        | 30.50        | 7.10         | 36.86  | 166      | 2 Average | HORIZONTAL |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Over                                 | Limit  | ReadAntenna | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| MHz  | dBm/Vm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dB                                   | dBm/Vm | dBm/Vm      | dB           | dB           | deg          | deg    |          |           |            |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |
| 1    | 2412.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 102.20                               | 48.20  | 54.00       | 101.35       | 30.57        | 7.13         | 36.85  | 166      | 2 Average | HORIZONTAL |     |        |    |        |        |    |    |     |     |  |   |         |       |       |       |       |       |      |       |     |        |            |      |       |      |       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                                                                                                                                                                                                      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|       |             |              |       |       |        |          |     |        |    |        |        |    |    |     |     |  |   |         |        |       |       |        |       |      |       |     |           |            |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                       |                                                                                             |
|------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH01 2412MHz                                                                       |                                                                                             |
| 1    | Vertical                                                                                   | Fundamental                                                                                 |
| Peak | <p></p>   | <p></p>   |
| Avg. | <p></p> | <p></p> |



| WIFI      | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| ANT       | 802.11g CH02 2417MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 1         | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Peak      | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C 3m 3117.00218652 HORIZONTAL<br/>Project : RSM 1000.000KHz VBR 3000.000KHz SRT Auto<br/>Bode : (FR) 101703<br/>Plane : X<br/>Full-directivity<br/>IME1 : Full-directivity<br/>Powersetting : #1</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>cn</th><th>deg</th></tr><tr><td>1 2389.56</td><td>66.79</td><td>-7.21</td><td>74.00</td><td>66.05</td><td>30.50</td><td>7.10</td><td>36.86</td><td>361</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C 3m 3117.00218652 HORIZONTAL<br/>Project : RSM 1000.000KHz VBR 3000.000KHz SRT Auto<br/>Bode : (FR) 101703<br/>Plane : X<br/>Full-directivity<br/>IME1 : Full-directivity<br/>Powersetting : #1</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>cn</th><th>deg</th></tr><tr><td>1 2412.00</td><td>111.58</td><td>37.58</td><td>74.00</td><td>110.73</td><td>30.57</td><td>7.13</td><td>36.85</td><td>361</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table></div></div> | Over        | Limit        | ReadAntenna  | Cable Preamp | A/Pos  | T/Pos    | Remark   | Pol/Phas  | Freq       | Level | Line | Level Factor | Loss Factor |  |  |  | MHz | dBm/Vm | dB | dBm/Vm | dBm/Vm | dB | cn | deg | 1 2389.56 | 66.79 | -7.21 | 74.00 | 66.05 | 30.50 | 7.10 | 36.86 | 361 | 0 Peak | HORIZONTAL | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor |  |  |  | MHz | dBm/Vm | dB | dBm/Vm | dBm/Vm | dB | cn | deg | 1 2412.00 | 111.58 | 37.58 | 74.00 | 110.73 | 30.57 | 7.13 | 36.85 | 361 | 0 Peak | HORIZONTAL | Avg. | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117.00218652 HORIZONTAL<br/>Project : RSM 1000.000KHz VBR 0.01000KHz SRT Auto<br/>Bode : (FR) 101703<br/>Plane : X<br/>Full-directivity<br/>IME1 : Full-directivity<br/>Powersetting : #1</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>cn</th><th>deg</th></tr><tr><td>1 2389.95</td><td>51.99</td><td>-2.01</td><td>54.00</td><td>51.25</td><td>30.50</td><td>7.10</td><td>36.86</td><td>361</td><td>0 Average</td><td>HORIZONTAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117.00218652 HORIZONTAL<br/>Project : RSM 1000.000KHz VBR 0.01000KHz SRT Auto<br/>Bode : (FR) 101703<br/>Plane : X<br/>Full-directivity<br/>IME1 : Full-directivity<br/>Powersetting : #1</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>cn</th><th>deg</th></tr><tr><td>1 2412.00</td><td>103.80</td><td>49.80</td><td>54.00</td><td>102.95</td><td>30.57</td><td>7.13</td><td>36.85</td><td>361</td><td>0 Average</td><td>HORIZONTAL</td></tr></table></div></div> | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor |  |  |  | MHz | dBm/Vm | dB | dBm/Vm | dBm/Vm | dB | cn | deg | 1 2389.95 | 51.99 | -2.01 | 54.00 | 51.25 | 30.50 | 7.10 | 36.86 | 361 | 0 Average | HORIZONTAL | Over | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | Freq | Level | Line | Level Factor | Loss Factor |  |  |  | MHz | dBm/Vm | dB | dBm/Vm | dBm/Vm | dB | cn | deg | 1 2412.00 | 103.80 | 49.80 | 54.00 | 102.95 | 30.57 | 7.13 | 36.85 | 361 | 0 Average | HORIZONTAL |
|           | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limit       | ReadAntenna  | Cable Preamp | A/Pos        | T/Pos  | Remark   | Pol/Phas |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| Freq      | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| MHz       | dBm/Vm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dB          | dBm/Vm       | dBm/Vm       | dB           | cn     | deg      |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| 1 2389.56 | 66.79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -7.21       | 74.00        | 66.05        | 30.50        | 7.10   | 36.86    | 361      | 0 Peak    | HORIZONTAL |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| Over      | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ReadAntenna | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| Freq      | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| MHz       | dBm/Vm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dB          | dBm/Vm       | dBm/Vm       | dB           | cn     | deg      |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| 1 2412.00 | 111.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 37.58       | 74.00        | 110.73       | 30.57        | 7.13   | 36.85    | 361      | 0 Peak    | HORIZONTAL |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| Over      | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ReadAntenna | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| Freq      | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Line        | Level Factor | Loss Factor  |              |        |          |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| MHz       | dBm/Vm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dB          | dBm/Vm       | dBm/Vm       | dB           | cn     | deg      |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| 1 2389.95 | 51.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -2.01       | 54.00        | 51.25        | 30.50        | 7.10   | 36.86    | 361      | 0 Average | HORIZONTAL |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| Over      | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ReadAntenna | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| Freq      | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Line        | Level Factor | Loss Factor  |              |        |          |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| MHz       | dBm/Vm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dB          | dBm/Vm       | dBm/Vm       | dB           | cn     | deg      |          |           |            |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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| 1 2412.00 | 103.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 49.80       | 54.00        | 102.95       | 30.57        | 7.13   | 36.85    | 361      | 0 Average | HORIZONTAL |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |       |       |       |       |       |      |       |     |        |            |      |       |             |              |       |       |        |          |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |           |        |       |       |        |       |      |       |     |        |            |      |                                                                                                                                                                                      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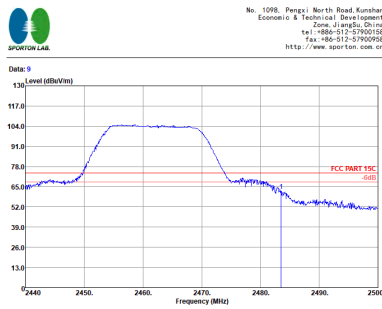
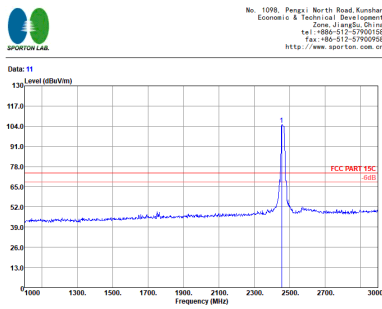
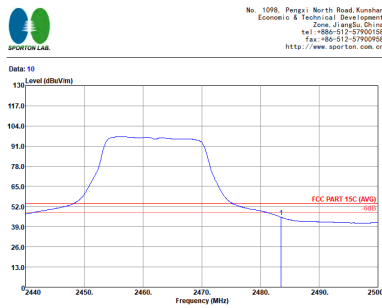
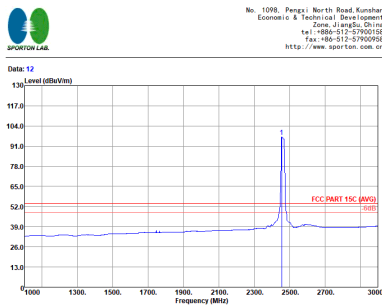


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| ANT  | 802.11g CH02 2417MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 1    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Peak | <div><div><div><div><div></div><div></div></div><div>SPORTRON LAB</div></div><div><div>No. 109B, Pengxi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57902158<br/>fax: +86-512-57902958<br/>http://www.sportron.com.cn</div></div></div><div><div><div>Site</div><div>Condition</div><div>Project</div><div>Mode</div><div>Plane</div><div>IMEI</div><div>PowerSetting</div></div><div><div>: 030805-KS</div><div>: FCC PART 15C 3m 3117 00218652 VERTICAL</div><div>: RSR-1000.000kHz VBR-3000.000kHz SRT-Auto</div><div>: (FR)1D1703</div><div>: 19</div><div>: X</div><div>: Full-directivity</div><div>: 81</div></div><div><div>Over</div><div>Limit</div><div>ReadAntenna</div><div>Cable Preamp</div><div>A/Pos</div><div>T/Pos</div><div>Remark</div><div>Pol/Phase</div></div><div><div>Freq</div><div>Level</div><div>Limit</div><div>Line</div><div>Level Factor</div><div>Loss Factor</div><div>dB</div><div>dB</div><div>cm</div><div>deg</div><div></div><div></div></div><div><div>1</div><div>2389.82</div><div>62.18</div><div>-11.82</div><div>74.00</div><div>61.44</div><div>30.50</div><div>7.10</div><div>36.86</div><div>390</div><div>0 Peak</div><div>VERTICAL</div></div></div></div> <div><div><div>Site</div><div>Condition</div><div>Project</div><div>Mode</div><div>Plane</div><div>IMEI</div><div>PowerSetting</div></div><div><div>: 030805-KS</div><div>: FCC PART 15C 3m 3117 00218652 VERTICAL</div><div>: RSR-1000.000kHz VBR-3000.000kHz SRT-Auto</div><div>: (FR)1D1703</div><div>: 19</div><div>: X</div><div>: Full-directivity</div><div>: 81</div></div><div><div>Over</div><div>Limit</div><div>ReadAntenna</div><div>Cable Preamp</div><div>A/Pos</div><div>T/Pos</div><div>Remark</div><div>Pol/Phase</div></div><div><div>Freq</div><div>Level</div><div>Limit</div><div>Line</div><div>Level Factor</div><div>Loss Factor</div><div>dB</div><div>dB</div><div>cm</div><div>deg</div><div></div><div></div></div><div><div>1 *</div><div>2412.00</div><div>108.88</div><div>34.88</div><div>74.00</div><div>108.03</div><div>30.57</div><div>7.13</div><div>36.85</div><div>390</div><div>0 Peak</div><div>VERTICAL</div></div></div> <tr><td rowspan="2">Avg.</td><td><div><div><div><div><div></div><div></div></div><div>SPORTRON LAB</div></div><div><div>No. 109B, Pengxi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57902158<br/>fax: +86-512-57902958<br/>http://www.sportron.com.cn</div></div></div><div><div><div>Site</div><div>Condition</div><div>Project</div><div>Mode</div><div>Plane</div><div>IMEI</div><div>PowerSetting</div></div><div><div>: 030805-KS</div><div>: FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL</div><div>: RSR-1000.000kHz VBR-0.01000kHz SRT-Auto</div><div>: (FR)1D1703</div><div>: 19</div><div>: X</div><div>: Full-directivity</div><div>: 81</div></div><div><div>Over</div><div>Limit</div><div>ReadAntenna</div><div>Cable Preamp</div><div>A/Pos</div><div>T/Pos</div><div>Remark</div><div>Pol/Phase</div></div><div><div>Freq</div><div>Level</div><div>Limit</div><div>Line</div><div>Level Factor</div><div>Loss Factor</div><div>dB</div><div>dB</div><div>cm</div><div>deg</div><div></div><div></div></div><div><div>1</div><div>2389.95</div><div>46.96</div><div>-7.04</div><div>54.00</div><div>46.22</div><div>30.50</div><div>7.10</div><div>36.86</div><div>390</div><div>0 Average</div><div>VERTICAL</div></div></div></div><div><div><div>Site</div><div>Condition</div><div>Project</div><div>Mode</div><div>Plane</div><div>IMEI</div><div>PowerSetting</div></div><div><div>: 030805-KS</div><div>: FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL</div><div>: RSR-1000.000kHz VBR-0.01000kHz SRT-Auto</div><div>: (FR)1D1703</div><div>: 19</div><div>: X</div><div>: Full-directivity</div><div>: 81</div></div><div><div>Over</div><div>Limit</div><div>ReadAntenna</div><div>Cable Preamp</div><div>A/Pos</div><div>T/Pos</div><div>Remark</div><div>Pol/Phase</div></div><div><div>Freq</div><div>Level</div><div>Limit</div><div>Line</div><div>Level Factor</div><div>Loss Factor</div><div>dB</div><div>dB</div><div>cm</div><div>deg</div><div></div><div></div></div><div><div>1 *</div><div>2412.00</div><div>101.28</div><div>47.28</div><div>54.00</div><div>100.43</div><div>30.57</div><div>7.13</div><div>36.85</div><div>390</div><div>0 Average</div><div>VERTICAL</div></div></div></td></tr> | Avg.        | <div><div><div><div><div></div><div></div></div><div>SPORTRON LAB</div></div><div><div>No. 109B, Pengxi North Road, Kunshan<br/>Economic &amp; 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|      | Avg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | <div><div><div><div><div></div><div></div></div><div>SPORTRON LAB</div></div><div><div>No. 109B, Pengxi North Road, Kunshan<br/>Economic &amp; 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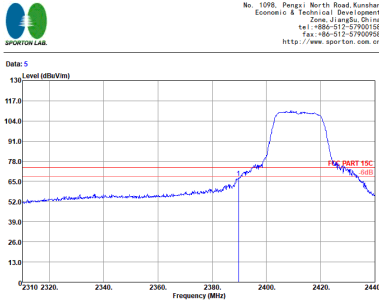
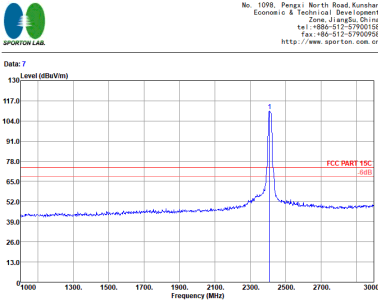
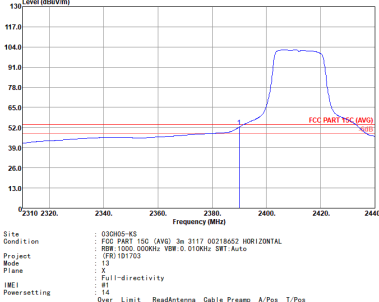
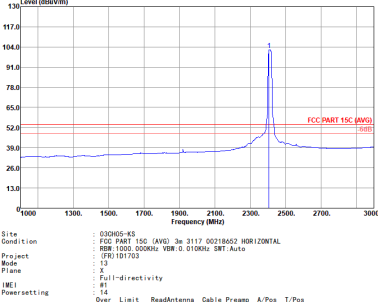




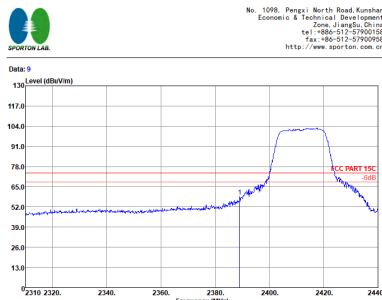
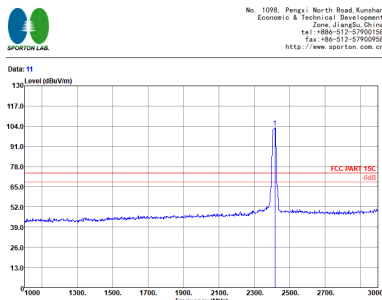
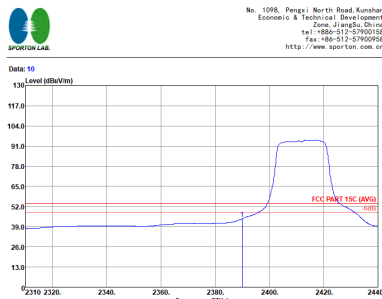
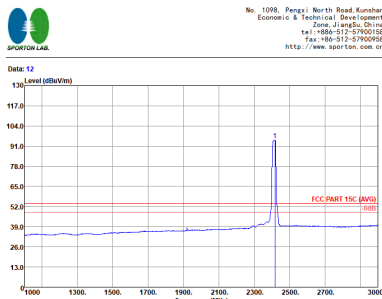
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|--------------|--------------|--------------|--------|----------|----------|------------|----------|---------------|------------|-------------|--------------|-------|-------|--------|----------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|---------|----------|------|---------------|------------|-------------|--------------|-------|-------|--------|----------|------|---------------|------------|-------------|--------------|-------|-------|--------|----------|---|---------|--------|-------|-------|--------|-------|------|-------|-----|---------|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|------------|-------------|--------------|-------|-------|--------|----------|------|---------------|------------|-------------|--------------|-------|-------|--------|----------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|------------|----------|------|---------------|------------|-------------|--------------|-------|-------|--------|----------|------|---------------|------------|-------------|--------------|-------|-------|--------|----------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|------------|----------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fundamental   |               |              |              |              |        |          |          |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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| Peak | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000kHz VBR-3000.000kHz SRT-Auto<br/>Bode : (F) 101703<br/>Plane : 12<br/>Full-directivity : 2<br/>Power setting : 8<br/>IME1 : 81</p><table><tr><th>IME1</th><th>Power setting</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>IME1</th><th>Power setting</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><td>1</td><td>2483.50</td><td>62.30</td><td>-11.70</td><td>74.00</td><td>61.01</td><td>30.86</td><td>7.25</td><td>36.82</td><td>270</td><td>15 Peak</td><td>VERTICAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan<br/>Economic &amp; 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Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000kHz VBR-3000.000kHz SRT-Auto<br/>Bode : (F) 101703<br/>Plane : 12<br/>Full-directivity : 2<br/>Power setting : 8<br/>IME1 : 81</p><table><tr><th>IME1</th><th>Power setting</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>IME1</th><th>Power setting</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><td>1</td><td>2483.50</td><td>45.12</td><td>-8.88</td><td>54.00</td><td>43.83</td><td>30.86</td><td>7.25</td><td>36.82</td><td>270</td><td>15 Average</td><td>VERTICAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000kHz VBR-3000.000kHz SRT-Auto<br/>Bode : (F) 101703<br/>Plane : 12<br/>Full-directivity : 2<br/>Power setting : 8<br/>IME1 : 81</p><table><tr><th>IME1</th><th>Power setting</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>IME1</th><th>Power setting</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><td>1</td><td>2462.00</td><td>96.94</td><td>42.94</td><td>54.00</td><td>95.76</td><td>30.79</td><td>7.22</td><td>36.83</td><td>270</td><td>15 Average</td><td>VERTICAL</td></tr></table></div></div> | IME1 | Power setting | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | IME1 | Power setting | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | 1 | 2483.50 | 45.12 | -8.88 | 54.00 | 43.83 | 30.86 | 7.25 | 36.82 | 270 | 15 Average | VERTICAL | IME1 | Power setting | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | IME1 | Power setting | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | 1 | 2462.00 | 96.94 | 42.94 | 54.00 | 95.76 | 30.79 | 7.22 | 36.83 | 270 | 15 Average | VERTICAL |
|      | IME1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Power setting | Over Limit    | ReadAntenna  | Cable Preamp | A/Pos        | T/Pos  | Remark   | Pol/Phas |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |
| IME1 | Power setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over Limit    | ReadAntenna   | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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| 1    | 2483.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 62.30         | -11.70        | 74.00        | 61.01        | 30.86        | 7.25   | 36.82    | 270      | 15 Peak    | VERTICAL |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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| IME1 | Power setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over Limit    | ReadAntenna   | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |
| IME1 | Power setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over Limit    | ReadAntenna   | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |
| 1    | 2462.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 105.01        | 31.01         | 74.00        | 103.83       | 30.79        | 7.22   | 36.83    | 270      | 15 Peak    | VERTICAL |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |
| IME1 | Power setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over Limit    | ReadAntenna   | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |
| IME1 | Power setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over Limit    | ReadAntenna   | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |
| 1    | 2483.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 45.12         | -8.88         | 54.00        | 43.83        | 30.86        | 7.25   | 36.82    | 270      | 15 Average | VERTICAL |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |
| IME1 | Power setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over Limit    | ReadAntenna   | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |
| IME1 | Power setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over Limit    | ReadAntenna   | Cable Preamp | A/Pos        | T/Pos        | Remark | Pol/Phas |          |            |          |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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| 1    | 2462.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 96.94         | 42.94         | 54.00        | 95.76        | 30.79        | 7.22   | 36.83    | 270      | 15 Average | VERTICAL |               |            |             |              |       |       |        |          |   |         |       |        |       |       |       |      |       |     |         |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |        |       |       |        |       |      |       |     |         |          |      |                                                                                                                                                                                                                                                               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        |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |      |               |            |             |              |       |       |        |          |      |               |            |             |              |       |       |        |          |   |         |       |       |       |       |       |      |       |     |            |          |

## 2.4GHz 2400~2483.5MHz

### WIFI 802.11n HT20 (Band Edge @ 3m)

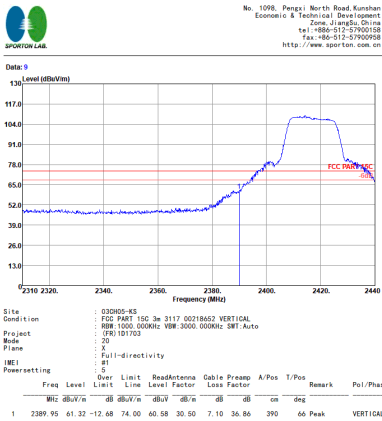
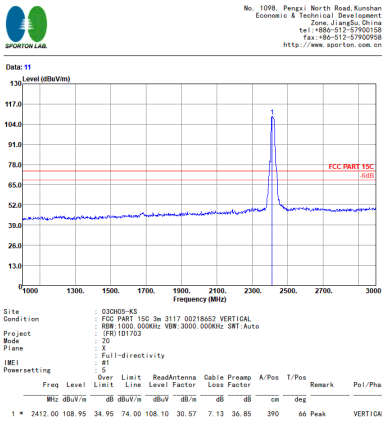
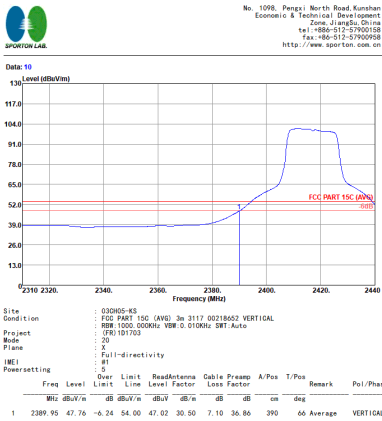
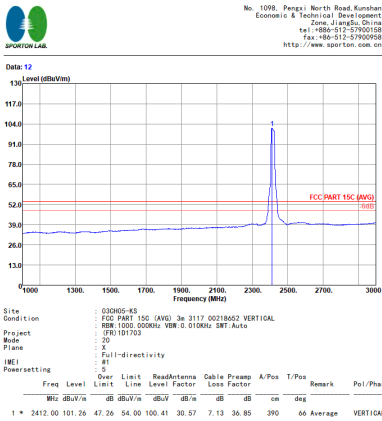
| WIFI        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4GHz 2400~2483.5MHz Band Edge @ 3m |         |             |       |        |       |             |             |            |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|-------------|-------|--------|-------|-------------|-------------|------------|-------|-------|--------|----------|-----|---------|----|---------|-----|----|----|----|----|-----|--|-------------|--------|-------|-------|--------|-------|------|-------|-----|-------------|------------|
| ANT         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 802.11n HT20 CH01 2412MHz            |         |             |       |        |       |             |             |            |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| 1           | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fundamental                          |         |             |       |        |       |             |             |            |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| Peak        | <div>  <p>No. 1098, Pengxi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032005-K5<br/>Condition : FCC PART 15C 3m 3117.00218652 HORIZONTAL<br/>Project : RRM 1000.000KHz VSW:3000.000KHz SRT:Auto<br/>Mode : (FR)101703<br/>Plane : 13<br/>Full-directivity : 2<br/>Full-indirectivity : #1<br/>Powersetting : #14</p> <table> <tr> <th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr> <tr> <th>MHz</th><th>dBm/V/m</th><th>dB</th><th>dBm/V/m</th><th>dBm</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr> <tr> <td>1 2389.69</td><td>67.36</td><td>-6.64</td><td>74.00</td><td>66.62</td><td>30.50</td><td>7.10</td><td>36.86</td><td>162</td><td>347 Peak</td><td>HORIZONTAL</td></tr> </table> </div>               |                                      |         | Freq        | Level | Over   | Limit | ReadAntenna | Cable       | Preamp     | A/Pow | T/Pow | Remark | Pol/Phas | MHz | dBm/V/m | dB | dBm/V/m | dBm | dB | dB | dB | dB | deg |  | 1 2389.69   | 67.36  | -6.64 | 74.00 | 66.62  | 30.50 | 7.10 | 36.86 | 162 | 347 Peak    | HORIZONTAL |
| Freq        | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Over                                 | Limit   | ReadAntenna | Cable | Preamp | A/Pow | T/Pow       | Remark      | Pol/Phas   |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| MHz         | dBm/V/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dB                                   | dBm/V/m | dBm         | dB    | dB     | dB    | dB          | deg         |            |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| 1 2389.69   | 67.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -6.64                                | 74.00   | 66.62       | 30.50 | 7.10   | 36.86 | 162         | 347 Peak    | HORIZONTAL |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
|             | <div>  <p>No. 1098, Pengxi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032005-K5<br/>Condition : FCC PART 15C 3m 3117.00218652 HORIZONTAL<br/>Project : RRM 1000.000KHz VSW:3000.000KHz SRT:Auto<br/>Mode : (FR)101703<br/>Plane : 13<br/>Full-directivity : 2<br/>Full-indirectivity : #1<br/>Powersetting : #14</p> <table> <tr> <th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr> <tr> <th>MHz</th><th>dBm/V/m</th><th>dB</th><th>dBm/V/m</th><th>dBm</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr> <tr> <td>1 * 2410.00</td><td>110.35</td><td>36.35</td><td>74.00</td><td>109.60</td><td>30.57</td><td>7.13</td><td>36.85</td><td>162</td><td>347 Peak</td><td>HORIZONTAL</td></tr> </table> </div>          |                                      |         | Freq        | Level | Over   | Limit | ReadAntenna | Cable       | Preamp     | A/Pow | T/Pow | Remark | Pol/Phas | MHz | dBm/V/m | dB | dBm/V/m | dBm | dB | dB | dB | dB | deg |  | 1 * 2410.00 | 110.35 | 36.35 | 74.00 | 109.60 | 30.57 | 7.13 | 36.85 | 162 | 347 Peak    | HORIZONTAL |
| Freq        | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Over                                 | Limit   | ReadAntenna | Cable | Preamp | A/Pow | T/Pow       | Remark      | Pol/Phas   |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| MHz         | dBm/V/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dB                                   | dBm/V/m | dBm         | dB    | dB     | dB    | dB          | deg         |            |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| 1 * 2410.00 | 110.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 36.35                                | 74.00   | 109.60      | 30.57 | 7.13   | 36.85 | 162         | 347 Peak    | HORIZONTAL |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
|             | <div>  <p>No. 1098, Pengxi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032005-K5<br/>Condition : FCC PART 15C (AVG) 3m 3117.00218652 HORIZONTAL<br/>Project : RRM 1000.000KHz VSW:0.0100KHz SRT:Auto<br/>Mode : (FR)101703<br/>Plane : 13<br/>Full-directivity : 2<br/>Full-indirectivity : #1<br/>Powersetting : #14</p> <table> <tr> <th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr> <tr> <th>MHz</th><th>dBm/V/m</th><th>dB</th><th>dBm/V/m</th><th>dBm</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr> <tr> <td>1 1 2389.95</td><td>52.33</td><td>-1.67</td><td>54.00</td><td>51.59</td><td>30.50</td><td>7.10</td><td>36.86</td><td>162</td><td>347 Average</td><td>HORIZONTAL</td></tr> </table> </div>    |                                      |         | Freq        | Level | Over   | Limit | ReadAntenna | Cable       | Preamp     | A/Pow | T/Pow | Remark | Pol/Phas | MHz | dBm/V/m | dB | dBm/V/m | dBm | dB | dB | dB | dB | deg |  | 1 1 2389.95 | 52.33  | -1.67 | 54.00 | 51.59  | 30.50 | 7.10 | 36.86 | 162 | 347 Average | HORIZONTAL |
| Freq        | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Over                                 | Limit   | ReadAntenna | Cable | Preamp | A/Pow | T/Pow       | Remark      | Pol/Phas   |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| MHz         | dBm/V/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dB                                   | dBm/V/m | dBm         | dB    | dB     | dB    | dB          | deg         |            |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| 1 1 2389.95 | 52.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -1.67                                | 54.00   | 51.59       | 30.50 | 7.10   | 36.86 | 162         | 347 Average | HORIZONTAL |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
|             | <div>  <p>No. 1098, Pengxi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032005-K5<br/>Condition : FCC PART 15C (AVG) 3m 3117.00218652 HORIZONTAL<br/>Project : RRM 1000.000KHz VSW:0.0100KHz SRT:Auto<br/>Mode : (FR)101703<br/>Plane : 13<br/>Full-directivity : 2<br/>Full-indirectivity : #1<br/>Powersetting : #14</p> <table> <tr> <th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr> <tr> <th>MHz</th><th>dBm/V/m</th><th>dB</th><th>dBm/V/m</th><th>dBm</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr> <tr> <td>1 * 2400.00</td><td>102.19</td><td>48.19</td><td>54.00</td><td>101.34</td><td>30.57</td><td>7.13</td><td>36.85</td><td>162</td><td>347 Average</td><td>HORIZONTAL</td></tr> </table> </div> |                                      |         | Freq        | Level | Over   | Limit | ReadAntenna | Cable       | Preamp     | A/Pow | T/Pow | Remark | Pol/Phas | MHz | dBm/V/m | dB | dBm/V/m | dBm | dB | dB | dB | dB | deg |  | 1 * 2400.00 | 102.19 | 48.19 | 54.00 | 101.34 | 30.57 | 7.13 | 36.85 | 162 | 347 Average | HORIZONTAL |
| Freq        | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Over                                 | Limit   | ReadAntenna | Cable | Preamp | A/Pow | T/Pow       | Remark      | Pol/Phas   |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| MHz         | dBm/V/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dB                                   | dBm/V/m | dBm         | dB    | dB     | dB    | dB          | deg         |            |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| 1 * 2400.00 | 102.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 48.19                                | 54.00   | 101.34      | 30.57 | 7.13   | 36.85 | 162         | 347 Average | HORIZONTAL |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |
| Avg.        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |         |             |       |        |       |             |             |            |       |       |        |          |     |         |    |         |     |    |    |    |    |     |  |             |        |       |       |        |       |      |       |     |             |            |



| WIFI      | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |       |             |             |             |        |             |             |          |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-------------|-------------|-------------|--------|-------------|-------------|----------|----------|----------|-----|-----|----|-----|-----|----|----|----|-----|--|--|-----------|-------|--------|-------|-------|-------|------|-------|-----|-------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|-----|----|-----|-----|----|----|----|-----|--|--|-----------|--------|-------|-------|--------|-------|-------|-------|-------------|----------|----------|
| ANT       | 802.11n HT20 CH01 2412MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |       |             |             |             |        |             |             |          |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| 1         | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fundamental |       |             |             |             |        |             |             |          |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| Peak      | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C 3m 3117.00218652 VERTICAL<br/>Project : RSM-1000.000KHz VBR-3000.000KHz SRT-Auto<br/>Bode : (FR)101703<br/>Plane : 13<br/>Full-directivity : 14<br/>Power setting : 14</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2389.04</td><td>58.56</td><td>-15.44</td><td>74.00</td><td>57.82</td><td>30.50</td><td>7.10</td><td>36.86</td><td>251</td><td>323 Peak</td><td>VERTICAL</td></tr></table></div></div>           | Freq        | Level | Over        | Limit       | ReadAntenna | Cable  | Preamp      | A/Pos       | T/Pos    | Remark   | Pol/Phas | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 2389.04 | 58.56 | -15.44 | 74.00 | 57.82 | 30.50 | 7.10 | 36.86 | 251 | 323 Peak    | VERTICAL | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C 3m 3117.00218652 VERTICAL<br/>Project : RSM-1000.000KHz VBR-3000.000KHz SRT-Auto<br/>Bode : (FR)101703<br/>Plane : 13<br/>Full-directivity : 14<br/>Power setting : 14</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2418.00</td><td>103.17</td><td>29.17</td><td>74.00</td><td>102.29</td><td>30.57</td><td>7.16</td><td>36.85</td><td>251</td><td>323 Peak</td><td>VERTICAL</td></tr></table></div></div> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 2418.00 | 103.17 | 29.17 | 74.00 | 102.29 | 30.57 | 7.16  | 36.85 | 251         | 323 Peak | VERTICAL |
|           | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Level       | Over  | Limit       | ReadAntenna | Cable       | Preamp | A/Pos       | T/Pos       | Remark   | Pol/Phas |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| MHz       | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dB          | dBm   | dBm         | dB          | dB          | cm     | deg         |             |          |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| 1 2389.04 | 58.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -15.44      | 74.00 | 57.82       | 30.50       | 7.10        | 36.86  | 251         | 323 Peak    | VERTICAL |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| Freq      | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Over        | Limit | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos       | Remark      | Pol/Phas |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| MHz       | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dB          | dBm   | dBm         | dB          | dB          | cm     | deg         |             |          |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| 1 2418.00 | 103.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 29.17       | 74.00 | 102.29      | 30.57       | 7.16        | 36.85  | 251         | 323 Peak    | VERTICAL |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| Avg.      | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117.00218652 VERTICAL<br/>Project : RSM-1000.000KHz VBR-3000.000KHz SRT-Auto<br/>Bode : (FR)101703<br/>Plane : 13<br/>Full-directivity : 14<br/>Power setting : 14</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2389.95</td><td>44.19</td><td>-9.81</td><td>54.00</td><td>43.45</td><td>30.50</td><td>7.10</td><td>36.86</td><td>251</td><td>323 Average</td><td>VERTICAL</td></tr></table></div></div> | Freq        | Level | Over        | Limit       | ReadAntenna | Cable  | Preamp      | A/Pos       | T/Pos    | Remark   | Pol/Phas | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 2389.95 | 44.19 | -9.81  | 54.00 | 43.45 | 30.50 | 7.10 | 36.86 | 251 | 323 Average | VERTICAL | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117.00218652 VERTICAL<br/>Project : RSM-1000.000KHz VBR-3000.000KHz SRT-Auto<br/>Bode : (FR)101703<br/>Plane : 13<br/>Full-directivity : 14<br/>Power setting : 14</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2418.00</td><td>41.05</td><td>54.00</td><td>94.17</td><td>30.57</td><td>7.16</td><td>36.85</td><td>251</td><td>323 Average</td><td>VERTICAL</td></tr></table></div></div>      | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 2418.00 | 41.05  | 54.00 | 94.17 | 30.57  | 7.16  | 36.85 | 251   | 323 Average | VERTICAL |          |
| Freq      | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Over        | Limit | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos       | Remark      | Pol/Phas |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| MHz       | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dB          | dBm   | dBm         | dB          | dB          | cm     | deg         |             |          |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| 1 2389.95 | 44.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -9.81       | 54.00 | 43.45       | 30.50       | 7.10        | 36.86  | 251         | 323 Average | VERTICAL |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| Freq      | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Over        | Limit | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos       | Remark      | Pol/Phas |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| MHz       | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dB          | dBm   | dBm         | dB          | dB          | cm     | deg         |             |          |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |
| 1 2418.00 | 41.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.00       | 94.17 | 30.57       | 7.16        | 36.85       | 251    | 323 Average | VERTICAL    |          |          |          |     |     |    |     |     |    |    |    |     |  |  |           |       |        |       |       |       |      |       |     |             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |           |        |       |       |        |       |       |       |             |          |          |





| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                           |                                                                                                 |
|------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH06 2437MHz                                                                      |                                                                                                 |
| 1    | Vertical                                                                                       | Fundamental                                                                                     |
| Peak | <div></div>   | <div></div>   |
| Avg. | <div></div> | <div></div> |

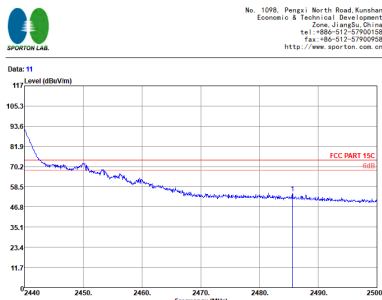
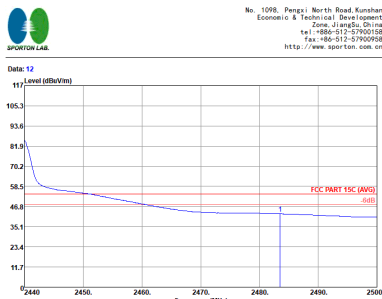






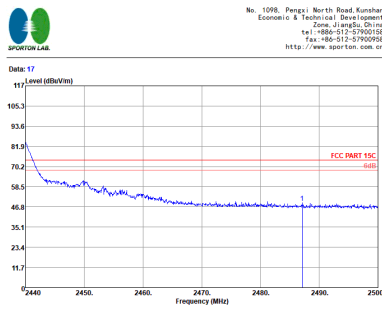
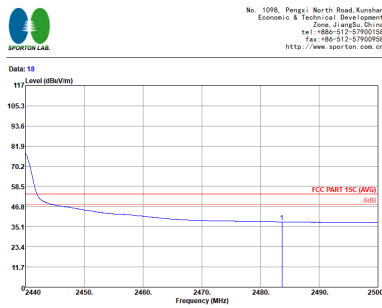




| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |        |             |             |        |        |       |        |                      |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-------------|-------------|--------|--------|-------|--------|----------------------|-----------|-----|--------|----|--------|--------|----|----|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|----------------------|------------|
| ANT  | 802.11n HT40 CH03 2422MHz - R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |        |             |             |        |        |       |        |                      |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fundamental |        |             |             |        |        |       |        |                      |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |
| Peak | <div><div><p>Site : 032005-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000.000KHz VSW:3000.000KHz SWT:Auto<br/>Model : FR1D1703<br/>Plane : 16<br/>Polarization : Full-directivity<br/>Power setting : 10<br/>IMEI : 81</p><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2485.60</td><td>54.71</td><td>-19.29</td><td>74.00</td><td>53.42</td><td>30.86</td><td>7.25</td><td>36.82</td><td>142</td><td>0 Peak HORIZONTAL</td></tr></table></div></div>           | Freq        | Level  | Limit       | ReadAntenna | Cable  | Preamp | A/Pos | T/Pos  | Remark               | Pol/Phase | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | deg |  | 1 | 2485.60 | 54.71 | -19.29 | 74.00 | 53.42 | 30.86 | 7.25 | 36.82 | 142 | 0 Peak HORIZONTAL    | Left Blank |
|      | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Level       | Limit  | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos | Remark | Pol/Phase            |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |
| MHz  | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dB          | dBuV/m | dBuV/m      | dB          | dB     | cm     | deg   |        |                      |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |
| 1    | 2485.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54.71       | -19.29 | 74.00       | 53.42       | 30.86  | 7.25   | 36.82 | 142    | 0 Peak HORIZONTAL    |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |
| Avg. | <div><div><p>Site : 032005-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000.000KHz VSW:0.01000KHz SWT:Auto<br/>Model : FR1D1703<br/>Plane : 16<br/>Polarization : Full-directivity<br/>Power setting : 10<br/>IMEI : 81</p><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2483.50</td><td>42.59</td><td>-11.41</td><td>54.00</td><td>41.30</td><td>30.86</td><td>7.25</td><td>36.82</td><td>142</td><td>0 Average HORIZONTAL</td></tr></table></div></div> | Freq        | Level  | Limit       | ReadAntenna | Cable  | Preamp | A/Pos | T/Pos  | Remark               | Pol/Phase | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | deg |  | 1 | 2483.50 | 42.59 | -11.41 | 54.00 | 41.30 | 30.86 | 7.25 | 36.82 | 142 | 0 Average HORIZONTAL | Left Blank |
|      | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Level       | Limit  | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos | Remark | Pol/Phase            |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |
| MHz  | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dB          | dBuV/m | dBuV/m      | dB          | dB     | cm     | deg   |        |                      |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |
| 1    | 2483.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 42.59       | -11.41 | 54.00       | 41.30       | 30.86  | 7.25   | 36.82 | 142    | 0 Average HORIZONTAL |           |     |        |    |        |        |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |                      |            |





| WIFI |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.4GHz 2400~2483.5MHz Band Edge @ 3m |             |             |              |             |              |        |           |        |           |          |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|-------------|--------------|-------------|--------------|--------|-----------|--------|-----------|----------|--------|-----------|------|------|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|----|---------|----------|--|
| ANT  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 802.11n HT40 CH03 2422MHz - R        |             |             |              |             |              |        |           |        |           |          |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |
| 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Vertical                             | Fundamental |             |              |             |              |        |           |        |           |          |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |
| Peak | <div><div><p>Site : 030905-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 VERTICAL<br/>Project : RRM 1000.000KHz VSW:3000.000KHz SWT:Auto<br/>Model : (FR) 1D1703<br/>Plane : 16<br/>Polarization : Full-directivity<br/>Polarization : AT<br/>PowerSetting : 10</p><table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2487.10</td><td>49.06</td><td>-24.94</td><td>74.00</td><td>47.77</td><td>30.86</td><td>7.25</td><td>36.82</td><td>242</td><td>31</td><td>Peak</td><td>VERTICAL</td></tr></tbody></table></div></div> <div>Left blank</div>           |                                      | Freq        | Level       | Limit        | ReadAntenna | Cable Preamp | A/Pos  | T/Pos     | Remark | Pol/Phase | MHz      | dBuV/m | dB dBuV/m | dBuV | dB/m | dB | dB | on | deg | 1 | 2487.10 | 49.06 | -24.94 | 74.00 | 47.77 | 30.86 | 7.25 | 36.82 | 242 | 31 | Peak    | VERTICAL |  |
|      | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Level                                | Limit       | ReadAntenna | Cable Preamp | A/Pos       | T/Pos        | Remark | Pol/Phase |        |           |          |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |
| MHz  | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | dB dBuV/m                            | dBuV        | dB/m        | dB           | dB          | on           | deg    |           |        |           |          |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |
| 1    | 2487.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 49.06                                | -24.94      | 74.00       | 47.77        | 30.86       | 7.25         | 36.82  | 242       | 31     | Peak      | VERTICAL |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |
| Avg. | <div><div><p>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL<br/>Project : RRM 1000.000KHz VSW:0.01000KHz SWT:Auto<br/>Model : (FR) 1D1703<br/>Plane : 16<br/>Polarization : Full-directivity<br/>Polarization : AT<br/>PowerSetting : 10</p><table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2483.68</td><td>37.92</td><td>-16.08</td><td>54.00</td><td>36.63</td><td>30.86</td><td>7.25</td><td>36.82</td><td>242</td><td>31</td><td>Average</td><td>VERTICAL</td></tr></tbody></table></div></div> <div>Left blank</div> |                                      | Freq        | Level       | Limit        | ReadAntenna | Cable Preamp | A/Pos  | T/Pos     | Remark | Pol/Phase | MHz      | dBuV/m | dB dBuV/m | dBuV | dB/m | dB | dB | on | deg | 1 | 2483.68 | 37.92 | -16.08 | 54.00 | 36.63 | 30.86 | 7.25 | 36.82 | 242 | 31 | Average | VERTICAL |  |
|      | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Level                                | Limit       | ReadAntenna | Cable Preamp | A/Pos       | T/Pos        | Remark | Pol/Phase |        |           |          |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |
| MHz  | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | dB dBuV/m                            | dBuV        | dB/m        | dB           | dB          | on           | deg    |           |        |           |          |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |
| 1    | 2483.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 37.92                                | -16.08      | 54.00       | 36.63        | 30.86       | 7.25         | 36.82  | 242       | 31     | Average   | VERTICAL |        |           |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |          |  |

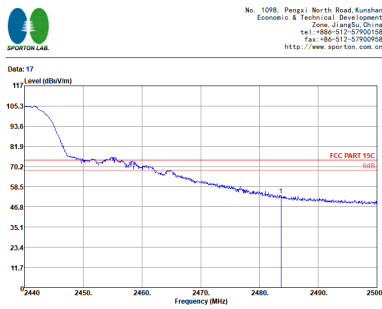
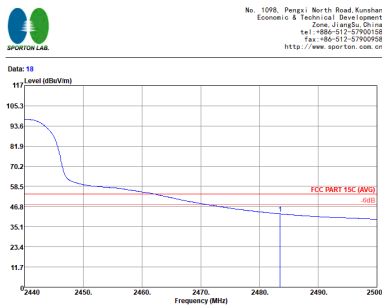


# FCC RF Test Report

Report No. : FR1D1703B

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH04 2427MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Peak | <div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158 fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C 3e 3117 00218652 HORIZONTAL<br/>Project : RSR-1000, 000KHz, VBR-3000, 000KHz, SRT-Auto<br/>Bode : (F) 101703<br/>Plane : Z<br/>Full-directivity : X<br/>IMEI : #1<br/>Power setting : #1</p><p>1 2389.95 69.36 -4.64 74.00 68.62 30.50 7.10 36.86 277 4 Peak HORIZONTAL</p></div>       | <div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158 fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C 3e 3117 00218652 HORIZONTAL<br/>Project : RSR-1000, 000KHz, VBR-3000, 000KHz, SRT-Auto<br/>Bode : (F) 101703<br/>Plane : Z<br/>Full-directivity : X<br/>IMEI : #1<br/>Power setting : #1</p><p>1 2430.00 108.51 34.51 74.00 107.56 30.64 7.16 36.85 277 4 Peak HORIZONTAL</p></div>      |
| Avg. | <div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158 fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3e 3117 00218652 HORIZONTAL<br/>Project : RSR-1000, 000KHz, VBR-0, 010800, SRT-Auto<br/>Bode : (F) 101703<br/>Plane : Z<br/>Full-directivity : X<br/>IMEI : #1<br/>Power setting : #1</p><p>1 2389.95 52.06 -1.94 54.00 51.32 30.50 7.10 36.86 277 4 Average HORIZONTAL</p></div> | <div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158 fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3e 3117 00218652 HORIZONTAL<br/>Project : RSR-1000, 000KHz, VBR-0, 010800, SRT-Auto<br/>Bode : (F) 101703<br/>Plane : Z<br/>Full-directivity : X<br/>IMEI : #1<br/>Power setting : #1</p><p>1 2428.00 100.32 46.32 54.00 99.37 30.64 7.16 36.85 277 4 Average HORIZONTAL</p></div> |

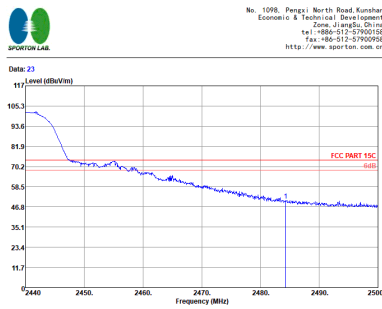
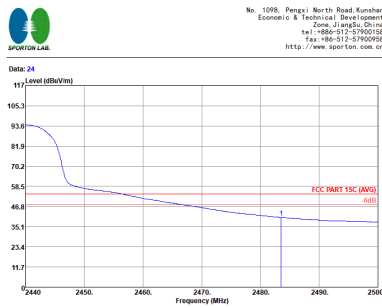


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |        |       |             |             |        |        |       |           |            |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-------|-------------|-------------|--------|--------|-------|-----------|------------|-----------|-----|--------|----|--------|------|------|----|----|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----------|------------|------------|
| ANT  | 802.11n HT40 CH04 2427MHz - R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |        |       |             |             |        |        |       |           |            |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fundamental |        |       |             |             |        |        |       |           |            |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| Peak | <div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 032H05-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000, 0000kHz VSW: 3000, 0000kHz SWT: Auto<br/>Mode : Z1<br/>Plane : X<br/>Polarization : Full-directivity<br/>IMEI : #1<br/>Power setting : #1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2483.68</td><td>53.35</td><td>-20.65</td><td>74.00</td><td>52.04</td><td>30.86</td><td>7.25</td><td>36.82</td><td>277</td><td>4 Peak</td><td>HORIZONTAL</td></tr></table></div></div>          | Freq        | Level  | Over  | Limit       | ReadAntenna | Cable  | Preamp | A/Pos | T/Pos     | Remark     | Pol/Phase | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |  | 1 | 2483.68 | 53.35 | -20.65 | 74.00 | 52.04 | 30.86 | 7.25 | 36.82 | 277 | 4 Peak    | HORIZONTAL | Left Blank |
|      | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Level       | Over   | Limit | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos | Remark    | Pol/Phase  |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| MHz  | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dB          | dBuV/m | dBuV  | dB/m        | dB          | dB     | cm     | deg   |           |            |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| 1    | 2483.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 53.35       | -20.65 | 74.00 | 52.04       | 30.86       | 7.25   | 36.82  | 277   | 4 Peak    | HORIZONTAL |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| Avg. | <div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 032H05-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000, 0000kHz VSW: 0, 01000kHz SWT: Auto<br/>Mode : Z1<br/>Plane : X<br/>Polarization : Full-directivity<br/>IMEI : #1<br/>Power setting : #1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2483.50</td><td>42.57</td><td>-11.43</td><td>54.00</td><td>41.28</td><td>30.86</td><td>7.25</td><td>36.82</td><td>277</td><td>4 Average</td><td>HORIZONTAL</td></tr></table></div></div> | Freq        | Level  | Over  | Limit       | ReadAntenna | Cable  | Preamp | A/Pos | T/Pos     | Remark     | Pol/Phase | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |  | 1 | 2483.50 | 42.57 | -11.43 | 54.00 | 41.28 | 30.86 | 7.25 | 36.82 | 277 | 4 Average | HORIZONTAL | Left Blank |
|      | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Level       | Over   | Limit | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos | Remark    | Pol/Phase  |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| MHz  | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dB          | dBuV/m | dBuV  | dB/m        | dB          | dB     | cm     | deg   |           |            |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| 1    | 2483.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 42.57       | -11.43 | 54.00 | 41.28       | 30.86       | 7.25   | 36.82  | 277   | 4 Average | HORIZONTAL |           |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |           |            |            |



| WIFI        | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |           |             |             |             |        |        |            |          |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------------|-------------|-------------|--------|--------|------------|----------|----------|----------|-----|-----------|----|-----------|-----------|----|----|----|-----|--|--|-----------|-------|-------|-------|-------|-------|------|-------|-----|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|-----------|----|-----------|-----------|----|----|----|-----|--|--|-------------|--------|-------|-------|--------|-------|------|-------|-----|------------|----------|
| ANT         | 802.11n HT40 CH04 2427MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |           |             |             |             |        |        |            |          |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| 1           | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fundamental |           |             |             |             |        |        |            |          |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| Peak        | <div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000KHz VBR-3000.000KHz SMT-Auto<br/>Bode : (FR)1D1703<br/>Plane : 21<br/>Full-directivity : 2<br/>Power setting : #1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100Hz</th><th>dB</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2389.95</td><td>65.74</td><td>-8.26</td><td>74.00</td><td>65.00</td><td>30.50</td><td>7.10</td><td>36.86</td><td>392</td><td>48 Peak</td><td>VERTICAL</td></tr></table></div></div>          | Freq        | Level     | Over        | Limit       | ReadAntenna | Cable  | Preamp | A/Pos      | T/Pos    | Remark   | Pol/Phas | MHz | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | cm | deg |  |  | 1 2389.95 | 65.74 | -8.26 | 74.00 | 65.00 | 30.50 | 7.10 | 36.86 | 392 | 48 Peak    | VERTICAL | <div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000KHz VBR-3000.000KHz SMT-Auto<br/>Bode : (FR)1D1703<br/>Plane : 21<br/>Full-directivity : 2<br/>Power setting : #1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100Hz</th><th>dB</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 * 2430.00</td><td>106.00</td><td>32.00</td><td>74.00</td><td>105.05</td><td>30.64</td><td>7.16</td><td>36.85</td><td>392</td><td>48 Peak</td><td>VERTICAL</td></tr></table></div></div>        | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | cm | deg |  |  | 1 * 2430.00 | 106.00 | 32.00 | 74.00 | 105.05 | 30.64 | 7.16 | 36.85 | 392 | 48 Peak    | VERTICAL |
|             | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Level       | Over      | Limit       | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos      | Remark   | Pol/Phas |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| MHz         | dBm/100Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dB          | dBm/100Hz | dBm/100Hz   | dB          | dB          | cm     | deg    |            |          |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| 1 2389.95   | 65.74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -8.26       | 74.00     | 65.00       | 30.50       | 7.10        | 36.86  | 392    | 48 Peak    | VERTICAL |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| Freq        | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Over        | Limit     | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos  | Remark     | Pol/Phas |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| MHz         | dBm/100Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dB          | dBm/100Hz | dBm/100Hz   | dB          | dB          | cm     | deg    |            |          |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| 1 * 2430.00 | 106.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 32.00       | 74.00     | 105.05      | 30.64       | 7.16        | 36.85  | 392    | 48 Peak    | VERTICAL |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| Avg.        | <div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000KHz VBR-3000.000KHz SMT-Auto<br/>Bode : (FR)1D1703<br/>Plane : 21<br/>Full-directivity : 2<br/>Power setting : #1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100Hz</th><th>dB</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2389.95</td><td>48.33</td><td>-5.67</td><td>54.00</td><td>47.59</td><td>30.50</td><td>7.10</td><td>36.86</td><td>392</td><td>48 Average</td><td>VERTICAL</td></tr></table></div></div> | Freq        | Level     | Over        | Limit       | ReadAntenna | Cable  | Preamp | A/Pos      | T/Pos    | Remark   | Pol/Phas | MHz | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | cm | deg |  |  | 1 2389.95 | 48.33 | -5.67 | 54.00 | 47.59 | 30.50 | 7.10 | 36.86 | 392 | 48 Average | VERTICAL | <div><div><p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000KHz VBR-3000.000KHz SMT-Auto<br/>Bode : (FR)1D1703<br/>Plane : 21<br/>Full-directivity : 2<br/>Power setting : #1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100Hz</th><th>dB</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 * 2430.00</td><td>97.34</td><td>43.34</td><td>54.00</td><td>96.39</td><td>30.64</td><td>7.16</td><td>36.85</td><td>392</td><td>48 Average</td><td>VERTICAL</td></tr></table></div></div> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | cm | deg |  |  | 1 * 2430.00 | 97.34  | 43.34 | 54.00 | 96.39  | 30.64 | 7.16 | 36.85 | 392 | 48 Average | VERTICAL |
|             | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Level       | Over      | Limit       | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos      | Remark   | Pol/Phas |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| MHz         | dBm/100Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dB          | dBm/100Hz | dBm/100Hz   | dB          | dB          | cm     | deg    |            |          |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| 1 2389.95   | 48.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -5.67       | 54.00     | 47.59       | 30.50       | 7.10        | 36.86  | 392    | 48 Average | VERTICAL |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| Freq        | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Over        | Limit     | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos  | Remark     | Pol/Phas |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| MHz         | dBm/100Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dB          | dBm/100Hz | dBm/100Hz   | dB          | dB          | cm     | deg    |            |          |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |
| 1 * 2430.00 | 97.34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 43.34       | 54.00     | 96.39       | 30.64       | 7.16        | 36.85  | 392    | 48 Average | VERTICAL |          |          |     |           |    |           |           |    |    |    |     |  |  |           |       |       |       |       |       |      |       |     |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |      |       |             |       |        |       |       |        |          |     |           |    |           |           |    |    |    |     |  |  |             |        |       |       |        |       |      |       |     |            |          |



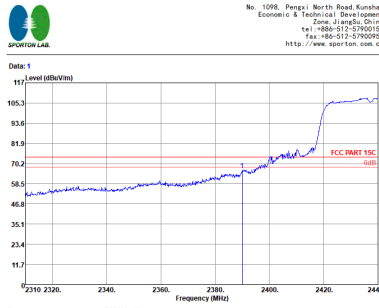
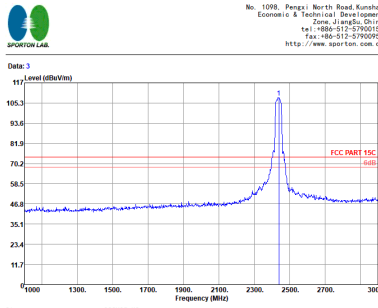
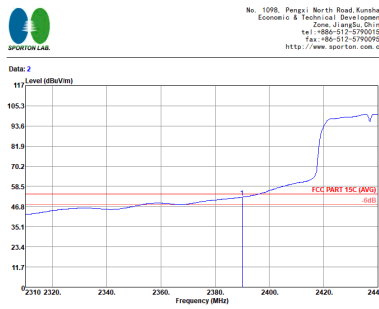
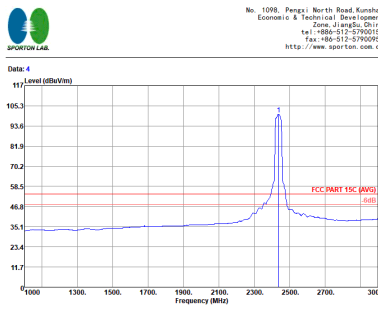
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |        |             |       |             |       |        |        |            |          |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-------------|-------|-------------|-------|--------|--------|------------|----------|----------|-----|--------|----|--------|------|------|----|----|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------------|----------|------------|
| ANT  | 802.11n HT40 CH04 2427MHz - R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |        |             |       |             |       |        |        |            |          |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |
| 1    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fundamental |        |             |       |             |       |        |        |            |          |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |
| Peak | <div><div><p>Site : 030905-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 VERTICAL<br/>Project : RRM 1000 000000 VSR 3000 000000 SWT:Auto<br/>Mode : (FR) 101703<br/>Plane : Z<br/>Polarization : Full-directivity<br/>IMEI : #1<br/>Power setting : #1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2484.28</td><td>50.61</td><td>-23.39</td><td>74.00</td><td>49.32</td><td>30.86</td><td>7.25</td><td>36.82</td><td>392</td><td>48 Peak</td><td>VERTICAL</td></tr></table></div></div>         | Freq        | Level  | Over        | Limit | ReadAntenna | Cable | Preamp | A/Pos  | T/Pos      | Remark   | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |  | 1 | 2484.28 | 50.61 | -23.39 | 74.00 | 49.32 | 30.86 | 7.25 | 36.82 | 392 | 48 Peak    | VERTICAL | Left blank |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Over        | Limit  | ReadAntenna | Cable | Preamp      | A/Pos | T/Pos  | Remark | Pol/Phas   |          |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |
| MHz  | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | dB          | dBuV/m | dBuV        | dB/m  | dB          | dB    | cm     | deg    |            |          |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |
| 1    | 2484.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50.61       | -23.39 | 74.00       | 49.32 | 30.86       | 7.25  | 36.82  | 392    | 48 Peak    | VERTICAL |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |
| Avg. | <div><div><p>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL<br/>Project : RRM 1000 000000 VSR 0 010000 SWT:Auto<br/>Mode : (FR) 101703<br/>Plane : Z<br/>Polarization : Full-directivity<br/>IMEI : #1<br/>Power setting : #1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2483.50</td><td>40.48</td><td>-13.52</td><td>54.00</td><td>39.19</td><td>30.86</td><td>7.25</td><td>36.82</td><td>392</td><td>48 Average</td><td>VERTICAL</td></tr></table></div></div> | Freq        | Level  | Over        | Limit | ReadAntenna | Cable | Preamp | A/Pos  | T/Pos      | Remark   | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |  | 1 | 2483.50 | 40.48 | -13.52 | 54.00 | 39.19 | 30.86 | 7.25 | 36.82 | 392 | 48 Average | VERTICAL | Left blank |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Over        | Limit  | ReadAntenna | Cable | Preamp      | A/Pos | T/Pos  | Remark | Pol/Phas   |          |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |
| MHz  | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | dB          | dBuV/m | dBuV        | dB/m  | dB          | dB    | cm     | deg    |            |          |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |
| 1    | 2483.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 40.48       | -13.52 | 54.00       | 39.19 | 30.86       | 7.25  | 36.82  | 392    | 48 Average | VERTICAL |          |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |            |          |            |



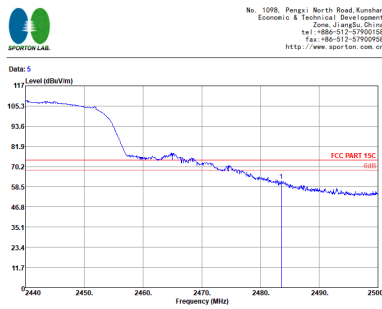
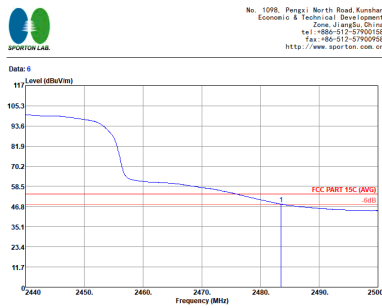


# FCC RF Test Report

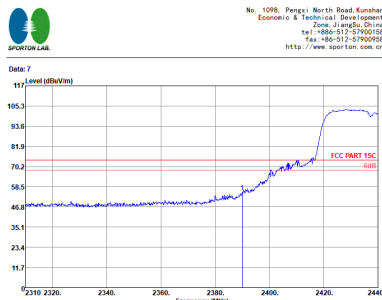
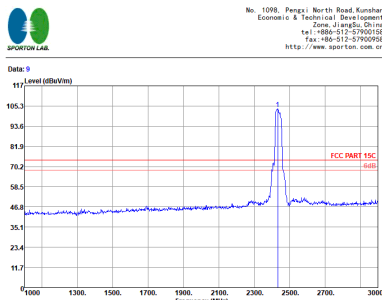
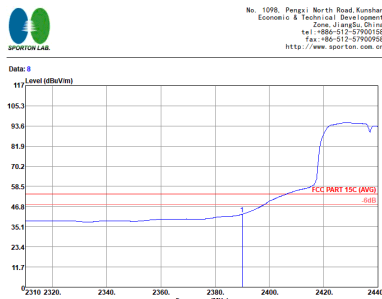
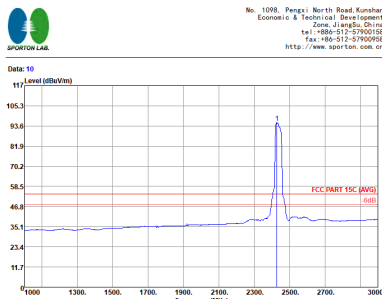
Report No. : FR1D1703B

| WIFI  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.4GHz 2400~2483.5MHz Band Edge @ 3m |             |             |             |        |        |        |          |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|-------------|-------------|--------|--------|--------|----------|-----------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---------|--------|-------|-------|--------|-------|------|-------|-----|-----------|------------|
| ANT   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 802.11n HT40 CH06 2437MHz - L        |             |             |             |        |        |        |          |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| 1     | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fundamental                          |             |             |             |        |        |        |          |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| Peak  | <div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158 fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C 3e 3117.00218652 HORIZONTAL<br/>Project : RSR-1000.000KHz VBR-3000.000KHz SMT-Auto<br/>Bode : (F0)101703<br/>Plane : X<br/>Full-directivity : X<br/>IMEI : 81<br/>PowerSetting : 0</p><table><tr><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th></tr><tr><td>1</td><td>2389.95</td><td>66.50</td><td>-7.50</td><td>74.00</td><td>65.76</td><td>30.50</td><td>7.10</td><td>36.86</td><td>113</td><td>2 Peak</td><td>HORIZONTAL</td></tr></table></div>            | Level                                | Over        | Limit       | ReadAntenna | Cable  | Preamp | A/Pos  | T/Pos    | Remark    | Pol/Phas   | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | 1 | 2389.95 | 66.50 | -7.50 | 74.00 | 65.76 | 30.50 | 7.10 | 36.86 | 113 | 2 Peak    | HORIZONTAL | <div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158 fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C 3e 3117.00218652 HORIZONTAL<br/>Project : RSR-1000.000KHz VBR-3000.000KHz SMT-Auto<br/>Bode : (F0)101703<br/>Plane : X<br/>Full-directivity : X<br/>IMEI : 81<br/>PowerSetting : 0</p><table><tr><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th></tr><tr><td>1</td><td>2440.00</td><td>108.55</td><td>34.55</td><td>74.00</td><td>107.49</td><td>30.71</td><td>7.19</td><td>36.84</td><td>113</td><td>2 Peak</td><td>HORIZONTAL</td></tr></table></div>           | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | 1 | 2440.00 | 108.55 | 34.55 | 74.00 | 107.49 | 30.71 | 7.19 | 36.84 | 113 | 2 Peak    | HORIZONTAL |
|       | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Over                                 | Limit       | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos  | Remark   | Pol/Phas  |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| dBm   | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBm                                  | dBm         | dBm         | dBm         | dBm    | dBm    | dBm    | dBm      |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| 1     | 2389.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 66.50                                | -7.50       | 74.00       | 65.76       | 30.50  | 7.10   | 36.86  | 113      | 2 Peak    | HORIZONTAL |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| Level | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limit                                | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos  | Remark | Pol/Phas |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| dBm   | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBm                                  | dBm         | dBm         | dBm         | dBm    | dBm    | dBm    | dBm      |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| 1     | 2440.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 108.55                               | 34.55       | 74.00       | 107.49      | 30.71  | 7.19   | 36.84  | 113      | 2 Peak    | HORIZONTAL |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| Avg.  | <div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158 fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C (AVG) 3e 3117.00218652 HORIZONTAL<br/>Project : RSR-1000.000KHz VBR-3000.000KHz SMT-Auto<br/>Bode : (F0)101703<br/>Plane : X<br/>Full-directivity : X<br/>IMEI : 81<br/>PowerSetting : 0</p><table><tr><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th></tr><tr><td>1</td><td>2389.95</td><td>52.22</td><td>-1.78</td><td>54.00</td><td>51.48</td><td>30.50</td><td>7.10</td><td>36.86</td><td>113</td><td>2 Average</td><td>HORIZONTAL</td></tr></table></div> | Level                                | Over        | Limit       | ReadAntenna | Cable  | Preamp | A/Pos  | T/Pos    | Remark    | Pol/Phas   | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | 1 | 2389.95 | 52.22 | -1.78 | 54.00 | 51.48 | 30.50 | 7.10 | 36.86 | 113 | 2 Average | HORIZONTAL | <div><p>No. 1098, Pengji North Road, Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158 fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C (AVG) 3e 3117.00218652 HORIZONTAL<br/>Project : RSR-1000.000KHz VBR-3000.000KHz SMT-Auto<br/>Bode : (F0)101703<br/>Plane : X<br/>Full-directivity : X<br/>IMEI : 81<br/>PowerSetting : 0</p><table><tr><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th></tr><tr><td>1</td><td>2438.00</td><td>100.52</td><td>46.52</td><td>54.00</td><td>99.46</td><td>30.71</td><td>7.19</td><td>36.84</td><td>113</td><td>2 Average</td><td>HORIZONTAL</td></tr></table></div> | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | dBm | 1 | 2438.00 | 100.52 | 46.52 | 54.00 | 99.46  | 30.71 | 7.19 | 36.84 | 113 | 2 Average | HORIZONTAL |
| Level | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limit                                | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos  | Remark | Pol/Phas |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| dBm   | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBm                                  | dBm         | dBm         | dBm         | dBm    | dBm    | dBm    | dBm      |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| 1     | 2389.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 52.22                                | -1.78       | 54.00       | 51.48       | 30.50  | 7.10   | 36.86  | 113      | 2 Average | HORIZONTAL |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| Level | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limit                                | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos  | Remark | Pol/Phas |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| dBm   | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBm                                  | dBm         | dBm         | dBm         | dBm    | dBm    | dBm    | dBm      |           |            |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |
| 1     | 2438.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.52                               | 46.52       | 54.00       | 99.46       | 30.71  | 7.19   | 36.84  | 113      | 2 Average | HORIZONTAL |     |     |     |     |     |     |     |     |     |     |   |         |       |       |       |       |       |      |       |     |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |       |             |       |        |       |       |        |          |     |     |     |     |     |     |     |     |     |     |   |         |        |       |       |        |       |      |       |     |           |            |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |        |             |       |             |       |        |        |           |            |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-------------|-------|-------------|-------|--------|--------|-----------|------------|-----------|-----|-----|----|-----|-----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----------|------------|------------|
| ANT  | 802.11n HT40 CH06 2437MHz - R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |        |             |       |             |       |        |        |           |            |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fundamental |        |             |       |             |       |        |        |           |            |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| Peak | <div><div></div><div><p>No. 1098, Pengzi North Road Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000.000KHz VSW:3000.000KHz SWT:Auto<br/>Bode : (F) 101703<br/>Plane : X<br/>Mode : Full-directivity<br/>IMEI :<br/>PowerSetting : 0</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2483.56</td><td>62.03</td><td>-11.97</td><td>74.00</td><td>60.74</td><td>30.86</td><td>7.25</td><td>36.82</td><td>113</td><td>2 Peak</td><td>HORIZONTAL</td></tr></table></div></div> <td>Left blank</td>           | Freq        | Level  | Over        | Limit | ReadAntenna | Cable | Preamp | A/Pos  | T/Pos     | Remark     | Pol/Phase | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 | 2483.56 | 62.03 | -11.97 | 74.00 | 60.74 | 30.86 | 7.25 | 36.82 | 113 | 2 Peak    | HORIZONTAL | Left blank |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Over        | Limit  | ReadAntenna | Cable | Preamp      | A/Pos | T/Pos  | Remark | Pol/Phase |            |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| MHz  | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | dB          | dBm    | dBm         | dB    | dB          | cm    | deg    |        |           |            |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| 1    | 2483.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 62.03       | -11.97 | 74.00       | 60.74 | 30.86       | 7.25  | 36.82  | 113    | 2 Peak    | HORIZONTAL |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| Avg. | <div><div></div><div><p>No. 1098, Pengzi North Road Kunshan<br/>Economic &amp; Technical Development Zone, Jiangsu China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</p><p>Site : 030H05-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 HORIZONTAL<br/>Project : RRM 1000.000KHz VSW:3000.000KHz SWT:Auto<br/>Bode : (F) 101703<br/>Plane : X<br/>Mode : Full-directivity<br/>IMEI :<br/>PowerSetting : 0</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2483.50</td><td>48.21</td><td>-5.79</td><td>54.00</td><td>46.92</td><td>30.86</td><td>7.25</td><td>36.82</td><td>113</td><td>2 Average</td><td>HORIZONTAL</td></tr></table></div></div> <td>Left blank</td> | Freq        | Level  | Over        | Limit | ReadAntenna | Cable | Preamp | A/Pos  | T/Pos     | Remark     | Pol/Phase | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 | 2483.50 | 48.21 | -5.79  | 54.00 | 46.92 | 30.86 | 7.25 | 36.82 | 113 | 2 Average | HORIZONTAL | Left blank |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Over        | Limit  | ReadAntenna | Cable | Preamp      | A/Pos | T/Pos  | Remark | Pol/Phase |            |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| MHz  | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | dB          | dBm    | dBm         | dB    | dB          | cm    | deg    |        |           |            |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |
| 1    | 2483.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 48.21       | -5.79  | 54.00       | 46.92 | 30.86       | 7.25  | 36.82  | 113    | 2 Average | HORIZONTAL |           |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |           |            |            |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |        |             |        |             |       |        |        |                     |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-------------|--------|-------------|-------|--------|--------|---------------------|--------|----------|-----|-----|----|-----|-----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|-----|----|-----|-----|----|----|----|-----|--|--|---|---------|--------|-------|-------|--------|-------|------|-------|-----|---------------------|
| ANT  | 802.11n HT40 CH06 2437MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |        |             |        |             |       |        |        |                     |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| 1    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fundamental |        |             |        |             |       |        |        |                     |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| Peak | <div><div></div><div><div>No. 1098, Pengxi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</div><div><div>Site : 030905-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000MHz VBR-3000.000MHz SMT-Auto<br/>Bode : (F) 101703<br/>Plane : 17<br/>Full-directivity : 17<br/>Power setting : 0<br/>IMEI : 81</div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.95</td><td>55.52</td><td>-18.48</td><td>74.00</td><td>54.78</td><td>30.50</td><td>7.10</td><td>36.86</td><td>393</td><td>62 Peak VERTICAL</td></tr></table></div></div></div>            | Freq        | Level  | Over        | Limit  | ReadAntenna | Cable | Preamp | A/Pos  | T/Pos               | Remark | Pol/Phas | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 | 2389.95 | 55.52 | -18.48 | 74.00 | 54.78 | 30.50 | 7.10 | 36.86 | 393 | 62 Peak VERTICAL    | <div><div></div><div><div>No. 1098, Pengxi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</div><div><div>Site : 030905-KS<br/>Condition : FCC PART 15C 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000MHz VBR-3000.000MHz SMT-Auto<br/>Bode : (F) 101703<br/>Plane : 17<br/>Full-directivity : 17<br/>Power setting : 0<br/>IMEI : 81</div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2434.00</td><td>103.58</td><td>29.58</td><td>74.00</td><td>102.63</td><td>30.64</td><td>7.16</td><td>36.85</td><td>393</td><td>62 Peak VERTICAL</td></tr></table></div></div></div>          | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 | 2434.00 | 103.58 | 29.58 | 74.00 | 102.63 | 30.64 | 7.16 | 36.85 | 393 | 62 Peak VERTICAL    |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Over        | Limit  | ReadAntenna | Cable  | Preamp      | A/Pos | T/Pos  | Remark | Pol/Phas            |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| MHz  | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dB          | dBm    | dBm         | dB     | dB          | cm    | deg    |        |                     |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| 1    | 2389.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 55.52       | -18.48 | 74.00       | 54.78  | 30.50       | 7.10  | 36.86  | 393    | 62 Peak VERTICAL    |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Over        | Limit  | ReadAntenna | Cable  | Preamp      | A/Pos | T/Pos  | Remark | Pol/Phas            |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| MHz  | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dB          | dBm    | dBm         | dB     | dB          | cm    | deg    |        |                     |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| 1    | 2434.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 103.58      | 29.58  | 74.00       | 102.63 | 30.64       | 7.16  | 36.85  | 393    | 62 Peak VERTICAL    |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| Avg. | <div><div></div><div><div>No. 1098, Pengxi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</div><div><div>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000MHz VBR-3000.000MHz SMT-Auto<br/>Bode : (F) 101703<br/>Plane : 17<br/>Full-directivity : 17<br/>Power setting : 0<br/>IMEI : 81</div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.95</td><td>42.34</td><td>-11.66</td><td>54.00</td><td>41.60</td><td>30.50</td><td>7.10</td><td>36.86</td><td>393</td><td>62 Average VERTICAL</td></tr></table></div></div></div> | Freq        | Level  | Over        | Limit  | ReadAntenna | Cable | Preamp | A/Pos  | T/Pos               | Remark | Pol/Phas | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 | 2389.95 | 42.34 | -11.66 | 54.00 | 41.60 | 30.50 | 7.10 | 36.86 | 393 | 62 Average VERTICAL | <div><div></div><div><div>No. 1098, Pengxi North Road, Kunshan<br/>Economic &amp; Technical Development<br/>Zone, Jiangsu, China<br/>tel: +86-512-57900158<br/>fax: +86-512-57900958<br/>http://www.sporton.com.cn</div><div><div>Site : 030905-KS<br/>Condition : FCC PART 15C (AVG) 3m 3117 00218652 VERTICAL<br/>Project : RSM-1000.000MHz VBR-3000.000MHz SMT-Auto<br/>Bode : (F) 101703<br/>Plane : 17<br/>Full-directivity : 17<br/>Power setting : 0<br/>IMEI : 81</div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2428.00</td><td>95.56</td><td>41.56</td><td>54.00</td><td>94.61</td><td>30.64</td><td>7.16</td><td>36.85</td><td>393</td><td>62 Average VERTICAL</td></tr></table></div></div></div> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm | dB | dBm | dBm | dB | dB | cm | deg |  |  | 1 | 2428.00 | 95.56  | 41.56 | 54.00 | 94.61  | 30.64 | 7.16 | 36.85 | 393 | 62 Average VERTICAL |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Over        | Limit  | ReadAntenna | Cable  | Preamp      | A/Pos | T/Pos  | Remark | Pol/Phas            |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| MHz  | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dB          | dBm    | dBm         | dB     | dB          | cm    | deg    |        |                     |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| 1    | 2389.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 42.34       | -11.66 | 54.00       | 41.60  | 30.50       | 7.10  | 36.86  | 393    | 62 Average VERTICAL |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Over        | Limit  | ReadAntenna | Cable  | Preamp      | A/Pos | T/Pos  | Remark | Pol/Phas            |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| MHz  | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dB          | dBm    | dBm         | dB     | dB          | cm    | deg    |        |                     |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |
| 1    | 2428.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 95.56       | 41.56  | 54.00       | 94.61  | 30.64       | 7.16  | 36.85  | 393    | 62 Average VERTICAL |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |      |       |             |       |        |       |       |        |          |     |     |    |     |     |    |    |    |     |  |  |   |         |        |       |       |        |       |      |       |     |                     |